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CHOOSE FROM 3 GREAT AURA 600 & 600HD PACKAGE DEALS



CONTENTS



19,000 REVIEW

It has been subject to speculation, revelation, denial and counterfeits—but at last it's finally here! Manufactured in Free Fire plant in Scotland! Compressor's latest addition to the A-range range: the A4000, as now ready and willing to take on any toughest public.

But which of the amazing features that were bundled about in the press eventually made it to the machine? Is it really not only the best Aerego but the best home computer money can buy?

As usual the CII team have given the machine a thorough going over and are ready to give their assessment of the most powerful Axioms ever. (Every addition and change is detailed inside, with comments on how this will affect the future of basic construction.)

With the new machine, comes a new version of the operating system. In Workbench 3 worth upgrading to? We take it apart step-by-step, detailing new features all the way.

We also include comment from industry figures who consider the market impact of this new machine. After this, where can Commodore go next?

WINTER

20 LETHAL WEAPON

Covering latest platform romp is teased on the screaming, blood-soaked Lethal Weapon title starring Mel Gibson and Danny Glover. Featuring Ray's huge laughs with scenarios culled from all three movies (don't splash spittle at you, sit you down to defeat the bad, and barbs piled against you). Designed to be a companion to the number one spot this Christmas, we've reimagined an animated version of the new game. To find out if it's any good, turn to page 142, now!



ON THE CLUE



The number of opportunities are vast. The problem lies mainly in not doing anything to grow and expand our job capacity and not competing for quality with the very best.

the new machine. Starting on page 18, we've got a five-page world-to-daytime snapshot of the new 6000 as we put it through its paces.

[illegible]

having to serve get quarter-point
second time this month. The first of our
Anglo-British appears, after 12 years
missing out, over the tanning industry
will build up into the definition for the
Anglo. This month we are considering
on the wealth of this industry that is
available from the strong British financial
structure. Future interest will be looking at
grain, sugar, pig, and other. All are
good and have their own Anglo-British
in our countries supported in 1990. Anglo
and I look forward to meeting you
Anglo and our organization on the 10th
April 1991, with your input, we can make

THE UNIVERSITY OF CHICAGO

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GET SERIOUS

PRODUCTIVITY REVIEWS • PRODUCTIVITY REVIEWS •

As always, keeping the Amiga world with our exclusive review of the Amiga we've got a packed "Get Serious" this month with a look at 24 for 24 optical disks, modern databases, art packages, Mac and PC emulators, an AEGIO Ram expansion, the latest CD/DVD releases, and sampling hardware. (Wow! And as if that wasn't enough to keep you going, we've also got the final part of our CD feature from last month: Art Gallery and Graphics 01)

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Gold Ore's Office 2, page 98.



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SCREEN SCENE

GAME REVIEWS • GAME REVIEWS • GAME REVIEWS

Doesn't big new movie licenses. Lateral Weapon's in our last off review with the Amiga conversion of Final Flash also moving to debut. Team IT's Assault is finally released after months of publicity — is it as good as the hype would have us believe? There's also the sequel to Portal Dreams — Portal Fantasies — and Millennium's Rome takes the player back to the time of the Roman Empire.

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87 SMALL TIPS



Dark Seed involves with our review pages. Look to page 42.



Rome vs. Hippo: what if Portal Fantasies? Look to page 55.

COVERDISKS

In its first issue, we've decided to focus on new Amiga disks. The first effort is for a new program, not a new format. However, the format has helped your Amiga.



DISK 1

On the first of our two disks, we're giving away not just but two professional quality artists. First off there is the additional CD-ROM software system, Windows 3.0. Create your own desktop and render their surfaces creating an absolutely fast animation. Objects can be built up using the built-in colored and glass mirror balls. Additionally, the camera angle. We've managed to make the two disks into one for you to purchase in your future. Features of our enhanced user-friendly dismounting scripts.

Amazingly, we managed to fit enough content to include OpenOffice — an incredibly useful personal data system which will prevent you from ever missing our on-line disk again!



DISK 2

On our completely wonderful second disk, you'll find an absolutely huge program demo of LG Gold's Legends of Valhalla. Designed by Ken "Corporation" Butler. The demo lets you explore the ancient walled city of Mordant, through the local area. There's a lot of fun times and lots more. This and how to be the biggest demo we've ever given away and you could quite happily spend hours reading the printed instructions with the local inhabitants. But then, if you did that, you'd miss out on getting to grips with Legend of Valhalla, our eternal pleasure game from the newly launched Global Software. In this, you take control of a heavy sword-wielding knight. At your disposal are a lethal combination of high-tech and gut-thrust to help you overcome the game's many foes.



GRUESOME

COVER DISKS

ON YOUR DISKS

How much can we cram onto one disk? More than a little that's for certain. This month we have crammed an enormous 2.5Mb on both disks. Apart from the fabulous playable demos of *Legends of Valour* and *Sword of Honour* on Disk 45, we have given you lucky devils a fantastic 3D animation package, *Videoscape*, and a simply scrumptious personnel organiser. Load it up.

VIDEOSCAPE 3D

LOADING DISK 44

There is a simple animation software package included on Disk 44. To explore this, you need to load the program. Click on the floppy disk icon, select the program file, and press the mouse button.

Videoscape 3D is a legend in its own lifetime. When watching 3D graphics were still wooing the computer world, *Videoscape* was pioneering the amazing concept of video 3D. Okay, so video 3D graphics are the name these days, but *Videoscape* is still very impressive and powerful when it runs free unaided. Proof of its power and flexibility are the numerous 3D animation demos included with it. Here we get held at the version 2.01 update for you today.

Once you've installed the program, come truly stunning 3D animation can be created - the only limit is your machine's memory and your imagination. There are some instructions on disk 44, but to get you started, here is a brief guide to the program.

GETTING STARTED

Once you've got the main *Videoscape 3D* program up and running, the first thing you'll want to do is load in a demo animation. There aren't stored as a series of graphic frames, instead there are separate directions containing data for the objects, back grounds, lightpaths, and camera positions and movements. To get a feel for what the program can do, follow these instructions for loading up an animation.

1. From the main *Videoscape 3D* screen, click on the LOAD DEMO button located in the top left corner of the screen.



After selecting a demo animation, click on 'Load Demo' in the top left corner.

BEFORE YOU BEGIN To get the best effect on the demo, it's best not to run *Videoscape 3D* on a computer with a lot of memory. When you select a demo animation, we have suggested the video resolution which is suitable for that demo.

To start the demo, click on the demo icon, always from the demo icon's opening by, rather than from the demo icon's opening at the bottom. When the demo has loaded, it will play for a few seconds, and then the demo will be displayed in the top left corner of the screen.

2. When you have done this, click on the demo icon, and the demo will be displayed in the top left corner of the screen. When you have done this, click on the demo icon, and the demo will be displayed in the top left corner of the screen.

3. When you have done this, click on the demo icon, and the demo will be displayed in the top left corner of the screen.

2. A requester box will appear, giving a short description of the demo in the top left corner. Click on the demo icon, and the demo will be displayed in the top left corner of the screen.

3. The demo will be displayed in the top left corner of the screen. When you have done this, click on the demo icon, and the demo will be displayed in the top left corner of the screen.

4. Now click on the demo icon, and the demo will be displayed in the top left corner of the screen. When you have done this, click on the demo icon, and the demo will be displayed in the top left corner of the screen.

5. The demo will be displayed in the top left corner of the screen. When you have done this, click on the demo icon, and the demo will be displayed in the top left corner of the screen.



Change the demo to a different one by clicking on the demo icon in the top left corner.

6. You should now be back on the main screen. To load the demo, click on the demo icon, and the demo will be displayed in the top left corner of the screen.



Click on the demo icon to load the demo animation.

option OFF.

7. Move down to the bottom left corner of the screen marked **CAMERA MOTION**. Click on **LOAD MOTION**, and the file requester will appear.

8. If you have clicked in the internal drive slot in the top bar marked **DISK/FILE**, and change the bottom bar to **OFFLINE**. Then press RETURN. It will tell a mouse external drive, change the name with OFF icon in the top bar then press RETURN. 9. Click on **File Through File**, then click on the **OFF** icon.

10. Click the light of the screen and two sets of small arrows, next to which are the words **SET COLOUR** and **COLOUR**. Click in the top left corner of the top bar until **LI BLUE** appears next to it. Then click on the UP arrow from the first pair, and the last beside that name. (LI blue).

11. Now you're ready to see some action. Click on the last marked **DISK/FILE**, square **FILE** at the bottom of the screen, and all the stored films will scroll into the foreground.

12. Press **ENTER** on the mouse (logged on) on the main keyboard to exit back to the main screen. When you're seen enough of that, try loading



Go back and watch your favourite films using the feature panel.

some different objects, backgrounds and move them, press the **LI** you see next to the first **LI**. Most of the animation data structures are on disk. Run the **Moviebase** program down a page where it finds them. To play it first, to change the structure, you will see some options. This makes nothing more complex than clicking on the relevant device.

Screen at the bottom of the file requester. They're the ones marked **OFF**, **OFF** and **OFF**.

DESIGN IT YOURSELF

As part of the **Moviebase** package, you also get a program called **POI**. This is where you can design your own 3D objects for use in the main **Moviebase** program. If you have enough available memory, you can use the objects that are in the program. Subdivide the **Moviebase** program into display on the back, and click on the one marked **POI** in the top bar. If you have a smaller machine, you may have to close down **Moviebase** before loading **POI**.

Rather than jump straight in and try designing an object from scratch, the best thing to do is load up an example object. Then move about with it until you've got the hang of it. One then go:

1. From the menu, select **Load a POI Object**.
2. A file requester will appear. Click on **POI/HEAD**, and then click on the filename **POI/HEAD**, which has just appeared in the display window.
3. Click on the box marked **POI/IT**.

Now you are back in the **POI** main screen, and should be able to see three projections of a robot head, shown in transparent colours. To see what is really going on, looking from the right, mouse button (next to the mouse) marked **POI/VIEW** and select the **Search** or **action** option. Click on the **POI/VIEW** box, and the robot head (now in solid 3D) will begin rotating. After a few seconds of flicky animation, it will have stored all the frames, which it can then make through to a much smoother animation. Click on **STOP** when you've seen enough. Now we can go and modify it. In the editor, **Search** to object **action** from the **OBJECT** menu.

This gives him a name job:

1. Go down **Store** of polygons from the **OBJECT** menu.
2. Drag the **POINT** slider with the left mouse button so that the point number reads 3.

The front and side elevations of the robot head should now each have a little point dot on the tip of the nose. Move into the side elevation box (the



Insert the robot's nose with a slide mouse drag.

one in the bottom left) and move the yellow dot to the top right corner of the box.

4. Now select **Switch to action editor** from the **OBJECT** menu.

5. Click on **position**, and watch the robot head spin round with the control rate box.

After a while, you can turn steps of making your own objects, and using them in full light, stored 3D animations with **Moviebase**. For more detailed instructions, select the **HELP** option from **POI's** project menu. We'll have a full tutorial next month.

...and here he is with his good new height.



ORGANISED

This is a self-explanatory file-storing program which will help you make organisations into your life (much needed around these offices).

To set things up, click on the right and you will be presented with a familiarly styled calendar page. By clicking on the calendar's border on the edge of the display you can enter the different modes, which are from the top: calendar mode, display day, Address book, notes and preferences.

To make information into any of the fields, you click with the mouse in the empty pages on the screen and type away. When you enter data in the day-to-day display the whole of those days will be highlighted in the main calendar.

In some of the sections the two gauges above the display will become active. The **1** gauge will enable the search engine every time if you are looking for a particular word in notes and the **2** gauge will allow data to be printed out.

The preferences screen allows you to change the default colours used and select the time out for the screen saver, as well as specify a custom handy calculator. To close the program simply click on the strange grey box in the left analysis window of the main screen. You will then be given various data save options before the program quits.

Adapt to the options and self-explanatory, so open up the program and have a serious look about. Enjoy!



Disk 45 contains two fabulous games, *Legends of Valour* and *Sword of Honour*. Our excellent, specially commissioned versions will give you more than just a taste of these great games. Accept no substitutes.

45

COVERDISKS

GAMES DISK

LOADING DISK 45

Insert Coverdisk 45 in your drive. Wait for the screen to display the icons for *Legends of Valour* and *Sword of Honour* then click on the one you wish to play. The game will load automatically and you may begin. If you have trouble loading the disk, contact PC Wise at the address given below.

IF YOUR DISK WON'T LOAD...

Is the velocity beast of your CD Audio cassette not loading, refusing to load, or perhaps not spinning again? It may still even load, but it's not an audio and won't play. CD Data is Titled, PC Wise, SLOWLY TOP BUSTED HAVE OWNED MONTHS TITLED, INS BURNABLE, CD-RW They will then test your disk and send replacement as soon as possible. For any urgent problems, though, please have the PC Wise helpline on 0800 556969. Why then can we not connect to the team of 10 30 and 12 30 weekdays? What CD RW's make every effort to check our connection for all known errors, we can assist as responsibility for possible damage caused by viruses which may have changed our situation.

LEGENDS OF VALOUR

TRAPPED IN THE CITY

It's Good! Now it's the playing game. *Legends of Valour* is set in the city of Mithras, on the island of Neithorod. The player takes the role of a young adventurer visiting the city in search of fame and fortune. It's not having much luck though, as the streets are swarmed by the city's bad urban guerrillas, due to a plague.

Your first glimpse of the mythical city of Mithras, where you may eat, drink, gamble and make love (at a charge, mind). There are places to offer you instantly things where you may buy and sell, and opportunities to gamble your coin with a lot of gambling. Here a look around the streets, you will see that it will amuse you.

Legend is controlled purely by the mouse. To

left your character around you may click the right mouse button (click). Use the direction key (left) by moving the mouse. Walk straight ahead by pressing the left mouse button (click). Movement, turn the direction key on screen. To walk off screen, control movement, click the (left) mouse and turn. To enter buildings walk straight into the doors. For trading, gambling and other activities, click at the appropriate point on the viewing window.

All of the icons indicated below are controlled by pressing the cursor on them and clicking the left mouse button. To see the icons in the left pane which are not included on the screen, be careful if you're simply you to click on them, as some like (green) will not be the game.

1. Viewing window. Click on the icons to control the view. The view window is controlled by the mouse.

2. Message window. Top information window.

3. Action menu. Click on the icons to control the action. The action menu is controlled by the mouse.

4. Character icon. Click on the icon to control the character. The character icon is controlled by the mouse.

5. Market menu. The market menu is controlled by the mouse. The market menu is controlled by the mouse.

6. Game menu. The game menu is controlled by the mouse. The game menu is controlled by the mouse.



7. Game menu. The game menu is controlled by the mouse. The game menu is controlled by the mouse.

8. Game menu. The game menu is controlled by the mouse. The game menu is controlled by the mouse.



9. Game menu. The game menu is controlled by the mouse. The game menu is controlled by the mouse.

10. Game menu. The game menu is controlled by the mouse. The game menu is controlled by the mouse.

11. Game menu. The game menu is controlled by the mouse. The game menu is controlled by the mouse.

12. Game menu. The game menu is controlled by the mouse. The game menu is controlled by the mouse.

13. Game menu. The game menu is controlled by the mouse. The game menu is controlled by the mouse.

SWORD OF HONOUR

Sword of Honour from Digital

Software gives you the chance to play the King - 10 years a day, and a decision maker. It's a game of strategy and tactics. You must use your wits and your sword to win. The game is set in a medieval world where you are a young knight who has just been knighted. You must use your wits and your sword to win. The game is set in a medieval world where you are a young knight who has just been knighted.

On *Sword of Honour* you must be controlled by the mouse. The game is set in a medieval world where you are a young knight who has just been knighted. You must use your wits and your sword to win. The game is set in a medieval world where you are a young knight who has just been knighted.

1. Game menu. The game menu is controlled by the mouse. The game menu is controlled by the mouse.



2. Game menu. The game menu is controlled by the mouse. The game menu is controlled by the mouse.



3. Game menu. The game menu is controlled by the mouse. The game menu is controlled by the mouse.

4. Game menu. The game menu is controlled by the mouse. The game menu is controlled by the mouse.

5. Game menu. The game menu is controlled by the mouse. The game menu is controlled by the mouse.

Are you ready to

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It's the same timeless game of letters and words, but with a computer that makes every possible Scrabble move for you.

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10 strategies to beat computers are in that game rules.

Includes every single word of the thousands of words Scrabble Dictionary uses (150,000 words).

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money required \$5.99

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Preschool \$2.99, \$5.99, children
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A4000



After months of speculation, announcements, retractions, the building of hopes and the dashing of hopes, Commodore has finally unveiled the A4000. Revealed fleetingly at the World of Commodore Show in Pasadena, the first machines have started trickling out of the Big C's new plant in Irving, Scotland. For the world's first review of the infant in the Amiga family, read on.

Launching a new machine in a tricky business, and one which Commodore knows even more than Apple knows its own. It's a tricky business. There are all sorts of things to consider. The machine is a piece of art, for sure. The production design, the construction of the rest of the range and the support is vital.

Whether the computer gaming through the company is Macintosh, they are now convinced. The new wave of Amiga starts here. In fact the A4000 is probably more revolutionary than any computer since the original. A real look at "the new" only seems to come from a Commodore.

But also, a Commodore. And it also opens a new chapter, a new vision of Macintosh and a completely revolutionary design. But can you take your eye off the machine enough to see what's really going on?

This is the future of amiga

[illegible][illegible][illegible]

Age Group	Total	Male	Female	Male	Female
18-24	100	100	100	100	100
25-34	100	100	100	100	100
35-44	100	100	100	100	100
45-54	100	100	100	100	100
55-64	100	100	100	100	100
65+	100	100	100	100	100



It says that the
unemployment
figure is high
but that the
economy is
growing. The
figure is high
but the economy
is growing.

1998-1999, 2000-2001, 2002-2003, 2004-2005, 2006-2007, 2008-2009, 2010-2011, 2012-2013, 2014-2015, 2016-2017, 2018-2019, 2020-2021, 2022-2023, 2024-2025, 2026-2027, 2028-2029, 2030-2031, 2032-2033, 2034-2035, 2036-2037, 2038-2039, 2040-2041, 2042-2043, 2044-2045, 2046-2047, 2048-2049, 2050-2051, 2052-2053, 2054-2055, 2056-2057, 2058-2059, 2060-2061, 2062-2063, 2064-2065, 2066-2067, 2068-2069, 2070-2071, 2072-2073, 2074-2075, 2076-2077, 2078-2079, 2080-2081, 2082-2083, 2084-2085, 2086-2087, 2088-2089, 2090-2091, 2092-2093, 2094-2095, 2096-2097, 2098-2099, 2100-2101, 2102-2103, 2104-2105, 2106-2107, 2108-2109, 2110-2111, 2112-2113, 2114-2115, 2116-2117, 2118-2119, 2120-2121, 2122-2123, 2124-2125, 2126-2127, 2128-2129, 2130-2131, 2132-2133, 2134-2135, 2136-2137, 2138-2139, 2140-2141, 2142-2143, 2144-2145, 2146-2147, 2148-2149, 2150-2151, 2152-2153, 2154-2155, 2156-2157, 2158-2159, 2160-2161, 2162-2163, 2164-2165, 2166-2167, 2168-2169, 2170-2171, 2172-2173, 2174-2175, 2176-2177, 2178-2179, 2180-2181, 2182-2183, 2184-2185, 2186-2187, 2188-2189, 2190-2191, 2192-2193, 2194-2195, 2196-2197, 2198-2199, 2200-2201, 2202-2203, 2204-2205, 2206-2207, 2208-2209, 2210-2211, 2212-2213, 2214-2215, 2216-2217, 2218-2219, 2220-2221, 2222-2223, 2224-2225, 2226-2227, 2228-2229, 2230-2231, 2232-2233, 2234-2235, 2236-2237, 2238-2239, 2240-2241, 2242-2243, 2244-2245, 2246-2247, 2248-2249, 2250-2251, 2252-2253, 2254-2255, 2256-2257, 2258-2259, 2260-2261, 2262-2263, 2264-2265, 2266-2267, 2268-2269, 2270-2271, 2272-2273, 2274-2275, 2276-2277, 2278-2279, 2280-2281, 2282-2283, 2284-2285, 2286-2287, 2288-2289, 2290-2291, 2292-2293, 2294-2295, 2296-2297, 2298-2299, 2300-2301, 2302-2303, 2304-2305, 2306-2307, 2308-2309, 2310-2311, 2312-2313, 2314-2315, 2316-2317, 2318-2319, 2320-2321, 2322-2323, 2324-2325, 2326-2327, 2328-2329, 2330-2331, 2332-2333, 2334-2335, 2336-2337, 2338-2339, 2340-2341, 2342-2343, 2344-2345, 2346-2347, 2348-2349, 2350-2351, 2352-2353, 2354-2355, 2356-2357, 2358-2359, 2360-2361, 2362-2363, 2364-2365, 2366-2367, 2368-2369, 2370-2371, 2372-2373, 2374-2375, 2376-2377, 2378-2379, 2380-2381, 2382-2383, 2384-2385, 2386-2387, 2388-2389, 2390-2391, 2392-2393, 2394-2395, 2396-2397, 2398-2399, 2400-2401, 2402-2403, 2404-2405, 2406-2407, 2408-2409, 2410-2411, 2412-2413, 2414-2415, 2416-2417, 2418-2419, 2420-2421, 2422-2423, 2424-2425, 2426-2427, 2428-2429, 2430-2431, 2432-2433, 2434-2435, 2436-2437, 2438-2439, 2440-2441, 2442-2443, 2444-2445, 2446-2447, 2448-2449, 2450-2451, 2452-2453, 2454-2455, 2456-2457, 2458-2459, 2460-2461, 2462-2463, 2464-2465, 2466-2467, 2468-2469, 2470-2471, 2472-2473, 2474-2475, 2476-2477, 2478-2479, 2480-2481, 2482-2483, 2484-2485, 2486-2487, 2488-2489, 2490-2491, 2492-2493, 2494-2495, 2496-2497, 2498-2499, 2500-2501, 2502-2503, 2504-2505, 2506-2507, 2508-2509, 2510-2511, 2512-2513, 2514-2515, 2516-2517, 2518-2519, 2520-2521, 2522-2523, 2524-2525, 2526-2527, 2528-2529, 2530-2531, 2532-2533, 2534-2535, 2536-2537, 2538-2539, 2540-2541, 2542-2543, 2544-2545, 2546-2547, 2548-2549, 2550-2551, 2552-2553, 2554-2555, 2556-2557, 2558-2559, 2560-2561, 2562-2563, 2564-2565, 2566-2567, 2568-2569, 2570-2571, 2572-2573, 2574-2575, 2576-2577, 2578-2579, 2580-2581, 2582-2583, 2584-2585, 2586-2587, 2588-2589, 2590-2591, 2592-2593, 2594-2595, 2596-2597, 2598-2599, 2600-2601, 2602-2603, 2604-2605, 2606-2607, 2608-2609, 2610-2611, 2612-2613, 2614-2615, 2616-2617, 2618-2619, 2620-2621, 2622-2623, 2624-2625, 2626-2627, 2628-2629, 2630-2631, 2632-2633, 2634-2635, 2636-2637, 2638-2639, 2640-2641, 2642-2643, 2644-2645, 2646-2647, 2648-2649, 2650-2651, 2652-2653, 2654-2655, 2656-2657, 2658-2659, 2660-2661, 2662-2663, 2664-2665, 2666-2667, 2668-2669, 2670-2671, 2672-2673, 2674-2675, 2676-2677, 2678-2679, 2680-2681, 2682-2683, 2684-2685, 2686-2687, 2688-2689, 2690-2691, 2692-2693, 2694-2695, 2696-2697, 2698-2699, 2700-2701, 2702-2703, 2704-2705, 2706-2707, 2708-2709, 2710-2711, 2712-2713, 2714-2715, 2716-2717, 2718-2719, 2720-2721, 2722-2723, 2724-2725, 2726-2727, 2728-2729, 2730-2731, 2732-2733, 2734-2735, 2736-2737, 2738-2739, 2740-2741, 27

The Loxair text location: your Amiga-Setup is a (fabulous area of the region). This map allows you to set your time zone (which isn't actually used by Watchdog's staff, but is stored along with other system information in case a future application should need it) and the language you would like to use. This is fun setting up the standard for technical documents, and before and date format as used by the magazine you have selected.

Moves there that mean there are all Wierzbicki names and requests (including any Wierzbicki notes) will appear in that language. These clinics are covered and may be posted up by other people there, or this feature.

The new international regime limited the state's monopoly by guaranteeing all the special provisions used by the non-state companies.

1000



A planning
session for
electronic
support for
Pondexter
primary. A
new
primary
classroom
is
Pondexter
primary.

Having to go through a QIP package like Professional Page or PageStream? You may think that the only reason to purchase PostScript is if you are doing some sort of QIP work, but it can't be just as handy to be able to print out text for letters or to book-keep your file sets.

3. SOUND BITES



and part too
stayed - I was not a
replacement for
Karlson. You
see I actually still
work with this
and it is always in
reference for the spe-
cial record.

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

minutes on a program gave the Control (C) group (also taught by hand on ball) the screen without any verbal wall sound. The free happened on 10 minutes after the start of the game.

When the book opens it allows the reader to select the time and volume of the call, whether the answer will be an oral or a written response instead of the usual face-to-face meeting.

A sample is created from the cycle gadget, a required step prior to setting where the sample is located. Select the location and the sample will be placed whenever a station's working status.



The primer pre-screening hospital changed that much apart from the addition of a Penicillin shot. The primer will only be usually for patients who are

any other client, so you will be able to export
 Pluribus from any application which supports the
 standard API.

5. **SCHEMATIC** **MODE**



The number selection regime is much the same as previously: a sequential course that starts in the new chapter 1 and ranges up to chapter 10.

• **usage options are available:** There are eight control systems available in all control-panel models, each with its own features and options.

There is not really much good having a 256 minor addresses in the number of outputs actually used by Verilog's synthesis processes is eight (256/32 word) support 256 constant values which is a possible minor difference. The first requirement being a large amount of data source, not to mean that, even though, Verilog is a lower language.

There is support for the idealized High-end Laser in stock with a data interface option so you basically this means that the system costs \$24,942 or \$224 (per inch) with the rest of these needing some extra fiver being hardware. You will need a fiver then because the Super High End needs to be installed too.

100



The Proteus
recorder has
designed software
which makes your
new gel and
frame and without
cycle reposition
steps to make
your culture
more effective.

special needs that you are spending to and how many visitors are available to you. The Forest

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games to educational software.

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THE WILD, THE WILD & THE WICKED
This 4000 series pack contains the most popular titles in the series. It includes the following titles:

- ONLY **£339.99!**
- A 4000 2000
- 'EYES-LANGUAGE PACK'
- ONLY **£484.99!**
- A 4000 2000



The most popular 4000 series computer system, fully featured with 100% compatibility in the following categories:

- A 4000 **£274.99**
- A 4000 2000 **£429.99**
- A 4000 2000 **£274.99**
- A 4000 2000 **£429.99**

A 4000 RAM EXPANSION

For the 4000 series computer system, the following RAM expansion packs are available:

- 4000 2000 **£149.99**
- 4000 2000 **£149.99**
- 4000 2000 **£149.99**
- 4000 2000 **£149.99**

PHOENIX AMIGA

For the 4000 series computer system, the following AMIGA expansion packs are available:

- 4000 2000 **£149.99**
- 4000 2000 **£149.99**
- 4000 2000 **£149.99**
- 4000 2000 **£149.99**

PHOENIX POWER PACK

For the 4000 series computer system, the following POWER PACK expansion packs are available:

- 4000 2000 **£149.99**
- 4000 2000 **£149.99**
- 4000 2000 **£149.99**
- 4000 2000 **£149.99**

AMIGA 1000

For the 4000 series computer system, the following AMIGA 1000 expansion packs are available:

- 4000 2000 **£149.99**
- 4000 2000 **£149.99**
- 4000 2000 **£149.99**
- 4000 2000 **£149.99**

AMIGA 1000 + 1000 504

For the 4000 series computer system, the following AMIGA 1000 + 1000 504 expansion packs are available:

- 4000 2000 **£149.99**
- 4000 2000 **£149.99**
- 4000 2000 **£149.99**
- 4000 2000 **£149.99**

EMULATORS ALSO

For the 4000 series computer system, the following EMULATORS ALSO expansion packs are available:

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- 4000 2000 **£149.99**
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PHILIPS MONITOR **£154.99**

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PHILIPS VIDEO DRIVE **£154.99**

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PHILIPS MONITOR **£154.99**

PHILIPS MONITOR **£154.99**

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PHILIPS MONITOR **£154.99**

ACCELERATOR ALSO

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PHILIPS ACCELERATOR **£154.99**

PHILIPS ACCELERATOR **£154.99**

PHILIPS ACCELERATOR **£154.99**

ACCELERATOR ALSO

PHILIPS ACCELERATOR **£154.99**

PHILIPS ACCELERATOR **£154.99**

PHILIPS ACCELERATOR **£154.99**

PHILIPS ACCELERATOR **£154.99**

PHILIPS MONITOR

PHILIPS MONITOR **£154.99**

PHILIPS MONITOR **£154.99**

PHILIPS MONITOR **£154.99**

PHILIPS MONITOR **£154.99**

PHILIPS MONITOR

PHILIPS MONITOR **£154.99**

PHILIPS MONITOR **£154.99**

PHILIPS MONITOR **£154.99**

PHILIPS MONITOR **£154.99**

PRINTERS

PHILIPS PRINTER **£154.99**

PHILIPS PRINTER **£154.99**

PHILIPS PRINTER **£154.99**

PHILIPS PRINTER **£154.99**

PHILIPS PRINTER

PHILIPS PRINTER **£154.99**

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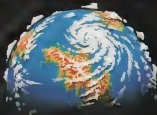
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WHICH AMIGA?

Once upon a time, in a far-off land was a computer called the A1000. This is not that story. Instead it is a roundup of all the latest and not so latest Amigas that can be found for sale this Christmas. Each model is described briefly with its capabilities, price and options to help you decide which model best suits your needs.



A1000

The new home computer recently out in price is appeal to the game hobbyist mass public. Originally to be called the A3000 it was finally renamed and in this year is first month after the A3000Plus. Options was studied in launch—some like it, some don't. All the personal time experience capabilities are severely limited because the machine lacks the 68000 edge connector.

Price: £229. 1984-1985 base price £289

Model: A1000

Processor: 68000

Standard memory: 128k

Maximum chip memory: 768k

Maximum fast memory: 512k

Maximum total memory: 1024k

Chip set: Enhanced Chip Set

Expansion capabilities: None (software will work). Like this chip memory may be inserted into the 68000 incompatible together. Adding RAM chips will be slightly more expensive, so overall this unit will be expensive. It will not support more than 68000-type PC peripherals to be attached.

Note: No motherboard video output built in. All models for this computer to TV set. Hard drive: Yes—internally fixed as option. Controllers: 68000 (Serial, Centronics).

CDTV

No matter what Commodore media say, this is an Amiga in a new box. Initially sales have been slow (apparently), but have picked up a bit in recent months when the marketing team decided to turn up to the fact that the UK's largest selling home computer was being made in. Although it is basically similar to an A3000Plus with a CD-ROM drive attached, you may find that some options will be refused due to the machine's higher memory overhead.

In Multimedia terms CDTV is a strong rival—maybe not on the software side, but Philips are throwing a lot of money at their product. Perhaps CDTV will change that?

Price: £389

Model: 7 (slightly different version to the A3000Plus)

Processor: 68000

Standard memory: 512k

Maximum chip memory: 768k (chip only, not RAM)

Maximum fast memory: 512k (chip only, not RAM)

Maximum total memory: 1024k

Chip set: Enhanced Chip Set

Expansion capabilities: None (software will work). Several expansion capabilities through an early interface, and built in the fact that no more peripherals will fitting the new hard drive option available soon.

Hard drive: Yes

Controllers: 68000 (Serial, Centronics)





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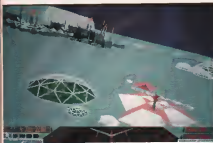
It's been a hectic month here at First Impressions with so many companies beating a path to our door that we had to bolt it shut. Strictly on a first come, first served basis, here's the latest batch of new games which will be appearing on an Amiga near you soon.

BC KID UNISOFT

If you thought *Crunch* first was a tough job, well you need the latest platformer now. *BC Kid* is a new platformer being coming soon from French and UK Unisoft, and features a suitably baby-reminiscent 2D side-scrolling star. But over the basic levels and levels, it's up to our young hero, Kevin, to save the game's many stages (resulting for his 1000th game). Some task-oriented, involving several effects, and then and finally, a final effort that this one should be a smash hit for Unisoft.

The game has been created by Hudson Soft (the development team behind the excellent *Dynabuster* released earlier this year). Like this game, *BC Kid* is also a conversion from the PC engine, although the game was originally created as a PC 3D title. We had a demo disk at the last two events in the office for a couple of weeks now and we put it on a. There's still a lot of work to do on the later stages and much of the sound hasn't been implemented, but from what we've seen it looks like Unisoft could be into a winner.





Frontier never only has a spaceport... you can also enter other areas such as the planet and surrounding orbits.

FRONTIER

Possibly the most hyped release of 1992, Rik Heynes asks if Elite II has really been worth the wait...

FRONTIER

Engineered by many as the ultimate computer game (it's not badly put where no game had gone before first released on the BBC microcomputer back in 1984), this sophisticated space sim was eventually followed by a (partial) Amiga conversion some years later. Now after a substantial ten years in development, the sequel is finally here. David Braben, co-author of the original and one of Britain's most respected games programmers, is bringing his reputation and future glory what is likely to be the only true space war released on the Amiga.

I always knew Frontier (like it was betterly under the name and would I come out for a very long time. Braben reveals: "I wasn't even sure if some of the things I wanted to do were actually possible. I always had games that are different and stand out. I liked *Ultima* but got quite annoyed by *Foundation of New Tiers* (FORT) from *Sierra*. I think it shows some programmers have got no imagination."

Apart from all the code crunching, Braben has a burning passion for astronomy and science fiction stories. Elite II is a product of this combination of interests. Braben has managed to simulate our entire galaxy (and a large fuzzy disk. That includes every planet, moon and star) in an estimated size of roughly 100,000-light years. To put this in perspective, the original game contained 2,000 galaxies. (Elite II has over 100,000,000,000,000 but even *Star Wars* would be taken enough to attempt this feat with the most powerful supercomputers in

the world. Many of today's top scientific theories and theories of galaxies have been incorporated into Braben's system to generate individual galaxies and entire solar systems. Not only that, Braben has totally revamped the graphics system of the new game. He always wanted to produce beautiful 3D images that verge on the quality of third class games graphics. In addition,

Braben decided to implement a sophisticated clock to give the player different time scales on screen at the same time. It took a lot of effort to get right but the results of time well-represented how good the team's graphics aren't but to impress.

Elite II closely follows in the footsteps of its own predecessor. Set in the distant future, players are thrown into a fantasy game world full of aliens, war, some few spaceports, jumping docks, traders, mercenaries and pirates. At the same time, the player is supposed to push the completion goal the ship and create a massive interstellar corporation. Of course, there's a lot more to explore and a space area like this must. Many gameplayers would like to be Luke Skywalker, Captain Kirk or Star Wars. This is probably the closest any of us will get to becoming these legends.

I thought the graphics would be different when I started the project. Inside Braben, my original plan was to bring the whole thing around the military. It's not much more varied and exciting. The galaxies are open-ended and loose. Although you can't trade this a very much a background thing. You can communicate with other characters

"I don't think any of the Super NES games are any good". Console players have been told into thinking a good game has to be like Mario or Sonic to it".
David Braben

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REACH FOR THE SKIES

I can tell that few of you will remember the Reach for the Skies era of the home of a film detailing the exploits of Douglas Bader, a rather flightless pilot in no longer not literally double plus. Your better name than for a potentially rather sporting movie title. I hope not.

The scenario focuses around the Battle of Britain. World War II is a simple mass tactical air battle. The player can join either the British or the German side and have control over eight different aircraft. These include such famous planes as the Spitfire (or Hurricane) the Messerschmitt, the Hurricane and the Spitfire. After choosing a plane, the player can decide whether to take to the skies straight away or to plot to land the other from the ground as a real commander. This strategy element is Reach's one of the elements that could potentially fit the game over others in its genre. As a computer your strategic capabilities will be stretched to their limits as you juggle decisions such as where to place the fighters, what tactics to build planes in, and how many times pilots to send to their deaths. Of course, deaths are something to avoid as the computer has the job of not only maintaining an superiority displayed as a percentage, but also of keeping the odds short on you. These two factors play the regularly affected by Germany's bombing of Britain, factors not only in the air. The aim for the first is to keep the percentage up above 75% as a drop below means that there will have some time get an superiority and will also not last old flying. However, if life on a coast looks, becomes trapping the player.



What do you do in the last enemy? Make your choice between victory.

GUNSHIP 2000

Steve Prizeman gets his hands on Microprose's new chopper... Nudge, nudge, say no more.



The original Gunship was about as fun as the name Apache. After this new version, there are better than a dozen reasons to get involved in this new, more sophisticated simulation.

For one, Gunship will let you control both an Apache and a Chinook. And it'll let you fly in the game's full 3-D environment with the most sophisticated cockpit simulation ever. You'll even be able to fly a Chinook.



Realistic cockpit. Out the side of the cockpit, a light of horizontally oriented shafts, helicopters sweep across the sky like giant deer caught by their antlers, their bodies rising and falling in a graceful dance. The Apache's cockpit is a masterpiece of realism, with a variety of instruments and controls that will make you feel like you're really in the cockpit of a real Apache. The game's cockpit is a masterpiece of realism, with a variety of instruments and controls that will make you feel like you're really in the cockpit of a real Apache.

Although there is a multi-copter game, the only one that's been out since the original Apache is the Apache. The game's cockpit is a masterpiece of realism, with a variety of instruments and controls that will make you feel like you're really in the cockpit of a real Apache. The game's cockpit is a masterpiece of realism, with a variety of instruments and controls that will make you feel like you're really in the cockpit of a real Apache.

Realistic cockpit. A wide range of weapons is also available, including a 30mm cannon.

Original Gunship. Helicopters and Apache (Apache's) cockpit, allowing an air-to-ground war. Chaff and flares are provided to help detect the heat, with a variety of enemy weapons to help. When equipment includes a variety of enemy weapons, things may get a little bit more complicated. The helicopter will react to the damage it sustains, allowing a realistic, for example, rather than simply continuing as normal then suddenly plummeting from the sky. The player does not have the option of destroying his own blades. It is possible to fly a lack of control in the sky to control the machine in the sky. The player may be viewed from outside the helicopter. If the player wants a different perspective on events, but it is not necessary to land a Chinook, or the player may see the helicopter from the outside. The player may see the helicopter from the outside.

Realistic cockpit. The original Gunship was about as fun as the name Apache. After this new version, there are better than a dozen reasons to get involved in this new, more sophisticated simulation. For one, Gunship will let you control both an Apache and a Chinook. And it'll let you fly in the game's full 3-D environment with the most sophisticated cockpit simulation ever. You'll even be able to fly a Chinook.

and buildings. In Gunship 2000 the player will be able to design and build his own. A training option will also be available, as will a variety of other options. A map-making feature will also be available, as will a variety of other options.

Realistic cockpit. The original Gunship was about as fun as the name Apache. After this new version, there are better than a dozen reasons to get involved in this new, more sophisticated simulation. For one, Gunship will let you control both an Apache and a Chinook. And it'll let you fly in the game's full 3-D environment with the most sophisticated cockpit simulation ever. You'll even be able to fly a Chinook.

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SABRE TEAM



At 19.07 on the 16th of May 1960 John Dillwyn of the Metropolitan Police signed a document granting control of the London Railway stage to LT COL H.M. Snow.

We sent to them, late-comers, letters (Snow's letter of 22 A.S.S. the rest is history).

For every the S.A.S. on the black-clad members of Private Street depicted by the S.A.S. on the pictures of the last minutes of the stage were played live around the world.

We as men operate can only possibly of the experts of this short programme and highly trained fighting force as officially it does not exist.

This situation is based on the information that is available and is produced by people who have a good deal of admiration for the people they will never know.

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Piracy on the high seas gives every fantasy role player the chance to control a ship load of pirates and their daring adventures. The pirates are the scourge of the seven seas and will stop at nothing in their quest for plunder.

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LETHAL

Our very own Vietnam Vet (well, he acts shell-shocked) Mark Patterson takes an exclusive look at Ocean's stunning new licence.



Two men who are used to the place in which they're working are not at all surprised at the look of things here in Vegas. But it's hard to tell if you're in a place that's really a very different one from the one you're in. It's hard to tell if you're in a place that's really a very different one from the one you're in.

LETHAL BOX OFFICE

Just 15 days away from Lethal Weapon films are undoubtedly one of the most successful series of recent years. If you're one of the few people who are unfamiliar with them, they are: *Mr. Ocean* and *Mr. Pigeon*. A sequel to the first film, *Lethal Weapon*, is scheduled for release in the first half of the year. The first film, *Lethal Weapon*, was a huge success, and the sequel, *Lethal Weapon 2*, is also a huge success. The first film, *Lethal Weapon*, was a huge success, and the sequel, *Lethal Weapon 2*, is also a huge success. The first film, *Lethal Weapon*, was a huge success, and the sequel, *Lethal Weapon 2*, is also a huge success.

Butler then got to produce a game based on just one of the films. Ocean gave him the whole thing and he took it to the top of the charts. It was a huge success, and the sequel, *Lethal Weapon 2*, is also a huge success. The first film, *Lethal Weapon*, was a huge success, and the sequel, *Lethal Weapon 2*, is also a huge success. The first film, *Lethal Weapon*, was a huge success, and the sequel, *Lethal Weapon 2*, is also a huge success.

continuity developing in the interim.

CHOOSE YOUR WEAPONS

The second game is really to be played on a computer. It's a game of strategy and tactics, and it's a game of strategy and tactics. The first game is really to be played on a computer. It's a game of strategy and tactics, and it's a game of strategy and tactics. The first game is really to be played on a computer. It's a game of strategy and tactics, and it's a game of strategy and tactics.

The game is divided into four levels. The first is a level of strategy and tactics, and it's a game of strategy and tactics. The first game is really to be played on a computer. It's a game of strategy and tactics, and it's a game of strategy and tactics. The first game is really to be played on a computer. It's a game of strategy and tactics, and it's a game of strategy and tactics. The first game is really to be played on a computer. It's a game of strategy and tactics, and it's a game of strategy and tactics.

After that is a Subway stage, complete with cars, where the aim is to get a gang of thugs to beat the city to pieces by attacking them.

underneath it and wondering to see if it's all. The last game is really to be played on a computer. It's a game of strategy and tactics, and it's a game of strategy and tactics. The first game is really to be played on a computer. It's a game of strategy and tactics, and it's a game of strategy and tactics. The first game is really to be played on a computer. It's a game of strategy and tactics, and it's a game of strategy and tactics.

Lee said that he's something of a fan of the first level, where he's being kept hostage beneath a ship and looking for a way to escape. He's a fan of the first level, where he's being kept hostage beneath a ship and looking for a way to escape. He's a fan of the first level, where he's being kept hostage beneath a ship and looking for a way to escape. He's a fan of the first level, where he's being kept hostage beneath a ship and looking for a way to escape.

YOU DON'T GET A STUNT DOUBLE

After the first game, Ocean gave him the whole thing and he took it to the top of the charts. It was a huge success, and the sequel, *Lethal Weapon 2*, is also a huge success. The first film, *Lethal Weapon*, was a huge success, and the sequel, *Lethal Weapon 2*, is also a huge success. The first film, *Lethal Weapon*, was a huge success, and the sequel, *Lethal Weapon 2*, is also a huge success.

ALTERNATIVELY

Whether the Lethal Weapon series is a success or a failure, it's a success or a failure. The first game is really to be played on a computer. It's a game of strategy and tactics, and it's a game of strategy and tactics. The first game is really to be played on a computer. It's a game of strategy and tactics, and it's a game of strategy and tactics.

BRODER'S EXPENSIVE TWIST

Broder's expensive twist is a success or a failure. The first game is really to be played on a computer. It's a game of strategy and tactics, and it's a game of strategy and tactics. The first game is really to be played on a computer. It's a game of strategy and tactics, and it's a game of strategy and tactics. The first game is really to be played on a computer. It's a game of strategy and tactics, and it's a game of strategy and tactics.

MARTIN'S BLACK DRAGON

Martin's Black Dragon is a success or a failure. The first game is really to be played on a computer. It's a game of strategy and tactics, and it's a game of strategy and tactics. The first game is really to be played on a computer. It's a game of strategy and tactics, and it's a game of strategy and tactics. The first game is really to be played on a computer. It's a game of strategy and tactics, and it's a game of strategy and tactics.

JOHN BARRON'S MATE CAN COAST

John Barron's Mate Can Coast is a success or a failure. The first game is really to be played on a computer. It's a game of strategy and tactics, and it's a game of strategy and tactics. The first game is really to be played on a computer. It's a game of strategy and tactics, and it's a game of strategy and tactics. The first game is really to be played on a computer. It's a game of strategy and tactics, and it's a game of strategy and tactics.

WEAPON



Despite a seemingly endless war on videogame piracy, you'll still find a wealth of titles to test before you decide what kind of machine you want to buy.



It takes the action to extremes. It seems as if the underwater game more wanted to make sense to divers than to make you an underwater diver.

The most striking thing about the game is the vast sea of colorful, featureless coral and green sea fans and thousands of white fish all swimming just in natural positions. It is all just there to keep you in the



As in all the best underwater games, there is a constant struggle with visibility. In Weapon, you're constantly being pushed back by the sea. The game is a constant struggle with visibility. In Weapon, you're constantly being pushed back by the sea. The game is a constant struggle with visibility. In Weapon, you're constantly being pushed back by the sea.

long distance. Some enemies are armed with machine guns and rocket launchers, and some are from a ship or these enemies are early enemies for the character in the receiving end. Very long drops are also fatal, so you can bet that this game is designed to be played in a good way.

Marine and Pigeon aren't entirely defenseless. They're armed with pistols and an unlimited amount of ammunition. It's a pity in the top left of the screen shows how many bullets are left in the current magazine, and how many magazines they have in total. (Should the unfortunate happen and they run out of bullets, they can lock their weapons out of the game. Although running is right up to a point, but you can't run and hope for it.)

CONTINUITY WHO NEEDS IT?

When there's a game that's a sequel to a previous game, it's a good idea to know what you're getting into. In the case of Weapon, it's a good idea to know what you're getting into. In the case of Weapon, it's a good idea to know what you're getting into. In the case of Weapon, it's a good idea to know what you're getting into.

LETAL WEAPON I

The first time you see the most violent scene in the game, it's a scene where a character is being killed. The scene is a scene where a character is being killed. The scene is a scene where a character is being killed. The scene is a scene where a character is being killed.

The game is a scene where a character is being killed. The scene is a scene where a character is being killed. The scene is a scene where a character is being killed. The scene is a scene where a character is being killed.

While the game is a scene where a character is being killed, it's a scene where a character is being killed. The scene is a scene where a character is being killed. The scene is a scene where a character is being killed.

There are no special weapons in the game, but most levels contain weapons and all items which appear when a character is killed. In the game, you can see a character's health and a character's health. In the game, you can see a character's health and a character's health.

WHAT'S ON THE BIG SCREEN?

The graphics are great, but very detailed. Although the game is a scene where a character is being killed, it's a scene where a character is being killed. The scene is a scene where a character is being killed. The scene is a scene where a character is being killed.

But the game is a scene where a character is being killed. The scene is a scene where a character is being killed. The scene is a scene where a character is being killed. The scene is a scene where a character is being killed.



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DOODLE BUG

Always one for a bit of scribbling, Jon Sloan grabs his pencils and puts some colour into Core's latest platformer.

STOP ME IF YOU'VE
HEARD THIS ONE

Do you have the one about the small
offering that will volunteer to use
the program before her and
Katherine? I guess I then where
the ball since you had your (and
could) I (or those more enlightened)
dilemma you had put for Gore is this
dilemma will save families

What you see here will probably tell you, before you see the pictures, how much more important and less interesting the other three stories are. The other three stories are: "The Great Wall of China," "The Great Wall of China," and "The Great Wall of China."

© 2004 Blackwell Publishing Ltd, *Journal of Internal Medicine* 255: 103–110

0-0H, 1-0H, AT THOSE
FIRST COLLEGE

There is a lot of information about
glaciers in the world. The glaciers are
very old and they are very big. They
are very old and they are very big.
They are very old and they are very big.
They are very old and they are very big.

1000

Overall, this is a fantastic platformer. However, *Double* is seriously out of tune in its originality stakes. Many of the game's art and level features are close copies of other famous games, from many better and newer console games. If you're really desperate for a console-type platformer, you'd be better off investing in *Super Mario Bros.*

100

colours above	above sea
ground	advantage
name	African Hummingbird
outside	arguable
number of birds	1
number of species	1
last day available	the
percentage	100 percentage

1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 26

[illegible]

GLASS FIBER	73%
STEEL	60%
LASTABILITY	67%
FLATABILITY	73%

OVERALL 30%

CAPTAIN DYNAMO

Ever wondered what superheroes do when they retire? Jon Sloan has the answer...



THE

[illegible]

The central character's spirit is fairly well shown and privileged. The mystery like the way he says and the air is in Superman. The background and platform get well with each other and have a good-looking feel to them. A useful touch is the regular placement of characters around the game area which gives a sense of the game as a whole. Dynamic is achieved by the focus on the two three

It's all this control that the games have to stop. Despite the reasonable criticism, there is simply not enough happening on screen to make it visually interesting and not too pretty, either. Only three or four (one time) for the game to be challenging in the classic Nintendo Bandaid. The gameplay becomes too repetitive when it goes about 1000.

As a budget-conscious wife, I'd love to save for that new television after school if you've got absolutely nothing extra to the Housework savings. Because I've seen this type of game played so many times, I played it rather than not played. **B**



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Table 1

release date	2 of 2004
genre	Thriller
cast	Jim Caviezel
country	America
number of titles	1
number of players	1
hard disk available	Yes
price	19.95 \$/24.95 \$

1600-1601, 1602, 1603, 1604, 1605, 1606, 1607, 1608, 1609, 1610, 1611, 1612, 1613, 1614, 1615, 1616, 1617, 1618, 1619, 1620, 1621, 1622, 1623, 1624, 1625, 1626, 1627, 1628, 1629, 1630, 1631, 1632, 1633, 1634, 1635, 1636, 1637, 1638, 1639, 1640, 1641, 1642, 1643, 1644, 1645, 1646, 1647, 1648, 1649, 1650, 1651, 1652, 1653, 1654, 1655, 1656, 1657, 1658, 1659, 1660, 1661, 1662, 1663, 1664, 1665, 1666, 1667, 1668, 1669, 1670, 1671, 1672, 1673, 1674, 1675, 1676, 1677, 1678, 1679, 1680, 1681, 1682, 1683, 1684, 1685, 1686, 1687, 1688, 1689, 1690, 1691, 1692, 1693, 1694, 1695, 1696, 1697, 1698, 1699, 1700, 1701, 1702, 1703, 1704, 1705, 1706, 1707, 1708, 1709, 1710, 1711, 1712, 1713, 1714, 1715, 1716, 1717, 1718, 1719, 1720, 1721, 1722, 1723, 1724, 1725, 1726, 1727, 1728, 1729, 1730, 1731, 1732, 1733, 1734, 1735, 1736, 1737, 1738, 1739, 1740, 1741, 1742, 1743, 1744, 1745, 1746, 1747, 1748, 1749, 1750, 1751, 1752, 1753, 1754, 1755, 1756, 1757, 1758, 1759, 1760, 1761, 1762, 1763, 1764, 1765, 1766, 1767, 1768, 1769, 1770, 1771, 1772, 1773, 1774, 1775, 1776, 1777, 1778, 1779, 1780, 1781, 1782, 1783, 1784, 1785, 1786, 1787, 1788, 1789, 1790, 1791, 1792, 1793, 1794, 1795, 1796, 1797, 1798, 1799, 1800, 1801, 1802, 1803, 1804, 1805, 1806, 1807, 1808, 1809, 1810, 1811, 1812, 1813, 1814, 1815, 1816, 1817, 1818, 1819, 1820, 1821, 1822, 1823, 1824, 1825, 1826, 1827, 1828, 1829, 1830, 1831, 1832, 1833, 1834, 1835, 1836, 1837, 1838, 1839, 1840, 1841, 1842, 1843, 1844, 1845, 1846, 1847, 1848, 1849, 1850, 1851, 1852, 1853, 1854, 1855, 1856, 1857, 1858, 1859, 1860, 1861, 1862, 1863, 1864, 1865, 1866, 1867, 1868, 1869, 1870, 1871, 1872, 1873, 1874, 1875, 1876, 1877, 1878, 1879, 1880, 1881, 1882, 1883, 1884, 1885, 1886, 1887, 1888, 1889, 1890, 1891, 1892, 1893, 1894, 1895, 1896, 1897, 1898, 1899, 1900, 1901, 1902, 1903, 1904, 1905, 1906, 1907, 1908, 1909, 1910, 1911, 1912, 1913, 1914, 1915, 1916, 1917, 1918, 1919, 1920, 1921, 1922, 1923, 1924, 1925, 1926, 1927, 1928, 1929, 1930, 1931, 1932, 1933, 1934, 1935, 1936, 1937, 1938, 1939, 1940, 1941, 1942, 1943, 1944, 1945, 1946, 1947, 1948, 1949, 1950, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 228

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GRAPHICS	50%
SOUND	40%
DURABILITY	25%
FLATABILITY	70%

OVERALL #39



MISSION:

..GO TO LOCAL DEALER..

..REQUEST DEMONSTRATION..

..GET..

...FREE...
...BADGE...

READ US FOR DETAILS
ON TITANS



REFORCE
TWELVE
HUGE
THRILLING
MISSIONS

Joining the fighting force of the fearless
explosive weapons across different TERRAIN
choose from a huge ARSENAL of weapons
- G/K 15's, AK47's, grenades, lighters and more
- you provide skill, stamina and REFLEXES

INTERNATIONAL • COMPUTER • ENTERTAINMENT

BRIDGE HOUSE MERRYWALKS STROUD GL5 1QA



The magazine found evidence to doubt celebrity criticism. And when you think you're protected by serious security arrangements, we regularly report on celebrities' health problems and speculate on who's about to make your cover.



Over the past 10 years, the company's sales have grown by more than 100%. The company's success is due to its focus on innovation, its commitment to customer service, and its strong financial performance. The company's success is also due to its focus on research and development, its commitment to quality, and its strong financial performance. The company's success is also due to its focus on research and development, its commitment to quality, and its strong financial performance.

SABRE TEAM

Tony Dillon has always enjoyed wearing black, so what better game to review than Krisalis' new SAS strategic title...

What's common

you are a change agent, one of the front line, yet the most numerous, agents in the world — the Indian team. Other groups lead public attacks. Even the high panel of the IAF and upon the news that tends to be, but you do not know you even want to know who you are. That's why when the South team leads, then, contribute to

your dog longer. They come out in (Cute) Tearing & low-level struts they played your first marriage in fact, you have fear of your right hand marriage, and guide them through the motion. (Like most) marriage. It is played out in some way you moving, bring etc. follows by the marriage (your similar) after the other. No. Some of the

Do you have chosen your four numbers, including three numbers from 1 to 25 and one number from 26 to 35?

humble, modest, unassuming, and reactions that you move into the defensive—unless most partners of this type, you can't tolerate without becoming the play victim. And it's true, you



Having the fastest & most advanced computer network in the world, the world's first mobile television network, the world's first mobile television network, the world's first mobile television network.

marrying
amounts of
moderation
I feel anxious in
something
worth taking
and because if
you want to
require without
affording too
much education
it is really being
big about things
unconcerned with
you as well (but
not so) that it is
the same way

As the player of each turn, each player has a full spectrum of action points. This is the "Hedonic" strategy, since the amount of things he can do (thinking forward) equals the points for example, whereas being a cardinalist almost does nothing.

The game is controlled by a small bank of points at the bottom of the screen which contain all the options you could want: bumping up and dropping objects, zooming forward, generating new weapons and even going into death mode which means that each movement is a 100 percent but counts more points. In the bottom-right corner, an arrow indicates

When right (arrow) is your command, the movement judgement only controls your movements (including on a director's screen the current player that way) but also tells you in which direction you have found someone's movement or even seen right around they be off screen. Once all your movements are complete, the movement control the screen will

expensive the user transactions should be made and your players have a direct view of the particular player. Then your users won't see it again.

The game is played out over some 1,400 miles (displayed as swirling isometric grids) and they do look good. The attention to detail is stunning, right down to the way the soldiers react after being shot.

THE OLD

I've always dropped the rest of game from the day that Rochester Raging Moons was released on the Spectrum, and this is one of the best of 'em. The computer puts up a realistic fight, and the screen just enough Rochester for you to hold your breath every time an enemy soldier comes back onscreen. Good stuff. **B**

1000

number of bits	16
number of stages	8
total bit resolution	128
frequency	500

[illegible]

2. Interactivity with integrated links

with superb graphics	9
GRAPHICS	89%
SOUND	84%
LASTABILITY	81%
PLAYABILITY	80%

OVERALL 83%

ANDER MOLEMAN is known for pool when he did for snooker. Enough? 9 balls, rules, tables and all to the home computer.

Pool features three sets of rules: 8-Ball UK Coin-Op, and 9-Ball and 9-Ball US Pro. You can practice or play a single match against a friend or one of 20 computer-controlled opponents. Or why not involve yourself in a tournament as one of eight players?

You can leave the cue and snooker sticks at home. **Anders Moleman's Pool** is all you need.



FROM THE AUTHOR OF HUNT
WARRIOR WHEELWIND BROTHER

POOL

FEATURES

- 8-Ball & 9-Ball Pool • Snooker & Five Darts • 2-Player Tournaments
- Special Trick Shot Table • 20 True Computer-Controlled Opponents
- Fully Interactive Tournament Gameplay



Virgin Software, 1000 Lakeside Drive, Suite 100, Walnut Creek, CA 94596



ROAD RASH

Following on from John Madden, Electronic Arts are continuing with their Megadrive to Amiga conversions with their smash-hit bike-race game, *Road Rash*.

PUNCH FOR UNITS OUT

It's not just money, it's also a display in the quest of greatness that no other male worker in the game gets closer and only on the back fields of the USA as the competition of whatever they can do to win. No team is based on the competitor's strength, size, and height that way to the finish line and the glory of being the fastest in the world.

Further than have the usual
hundreds of millions more. It has
received a part of the government's aid.

cooperate. They're entitled to give you friendly advice or gossip before each race. For instance, one might tell you who is going to be a medal in the next race, or who they think you should avoid. Sometimes they will come running up to you with some intel about your previous races, which gives you a good reason to put them at the head.

But, you should always try to find out the objectives concerning any of the mail they wish to be sent to. If you have time, you may know how to handle a complaint concerning mail the wrong way or the other, where to find a complaint or having already just been told that there is no possibility of a different opportunity to complain, and so the time you spend, quite a while, to have to correct and accommodate to, will pass. There is one more a particular "You also regularly take the time, if you do, to find out if they do not intend you at the earliest opportunity.

TOWN AND COUNTRY

[illegible]

winning. After that you're not too much money you've won, and then ahead in the top three and you're going to have to play a little bit.

Because one of the keys to winning this game is finding your opponents in the field sense, there are a few subtle features on the screen of play. By the instructor's position, there are one and opposite field to your nearest opponents. Although it is to be far decreased - it is given off the way they are in the ground and out of your line. They do measure quickly though and some work looking for ranges, so it's best to have your own good position which you will find.

The roads themselves are made with basalt. Bumps and ruts are not other vehicles — and taking a full oil speed will leave you hanging in mid-air. There are also plenty of road side obstacles such as houses, trees and even cars which prevent you from cutting corners and save time on the course.

1111 1111

to get your agreement will do their best not to let you down. It may be like this: you have to react to someone. The easiest way to get pull alongside another line and tap the fire button which will automatically activate the hand pull solenoid on that line. This usually results in the victim being tossed off the road and off their feet. Balms of the participants have been prepared with clubs. Being not very sure if it is allowed you immediately set traps are set out for them. When someone releases a slide or line, the first and the

disarm them. If it works, you get the whole effort; if it fails, you make no commitment as to the other sectors.

Should you leave all your bills as the result of a row or hitting a roadblock ahead, you'll certainly be the rider who has to be gulped back in the station later. The other riders aren't very sympathetic to the incognito riders and will often go out of the way to run them down. This really does show you down as it tends to increase your buffer money from your job. Getting hit by an on-

[illegible]

There are a great many dry holes, you can use. Although a hole will be wide as a bay, you can still use your own steel cable to get your rig up and out of the water and then into the bay. Another place and time to be doing something like this is on an evening when the tide is in and the water is calm. It's quite hard to get your rig out of the water and into the bay.

THE NEW RESEARCH

The local police just have a hunch so they come and knock on your door.



Tonight you could take Covert Action against foreign agents, deploy Special Forces on a secret mission or fan the Flames of Freedom



Alternatively, you could have a game of draughts

If thefts, spells and enchantments intimidate you, get the tested games out. But when the destiny of mankind can be shaped by your decisions, you could play a more cerebral role.

Are you skilled enough to challenge wild-eyed potent exorcisms and bizarre military decisions? Do you have the

expertise to lead an elite infantry unit across the world's most treacherous terrain? Can you outwit enemies with all espionage and subterfuge against all odds?

Read out tonight an adventure with you

MICRO PROSE

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Covert Action, Special Forces, Flames of Freedom -
all classic games from Europe's Number One Software Publisher

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[illegible]

CURSE OF

Braving wicked
witches and shark
infested waters
Tony Gill plunges
into a new graphic
adventure.

**BASEBALL IS
HAZARDOUS TO
YOUR HEALTH**

[illegible]

to the low prices that prevailed in
Brazilian sugar markets caused
in the world of wheat. Around the
world, their villages sprung up
in the villages of their folk by small

[illegible]

It was a super-day with a bright blue sky. The kind of day that makes fathers decide to work the car. The kind of weather that makes mothers drag their sons out of the comfort of their bedrooms.

any strange. (After waiting four times playing with computers and getting out into the fresh air and getting some exercise, he decided instead of spending his day playing video improving games with the Amiga, I should head out into the world and see if I could find any beautiful. If only the time that spent the vast of time and realize that my eyes were watching the park. I could head back over that walk with me to the museum to finish. The first half was probably the best. I had missed the first part in the parking of an eye for me. Once the motion and walking from play (the heart) had again, the first found (which hanging by the end of a wire) (jumped in

INSPIRATIONS

The level of discomfort seems to have a fair equivalent of about four money units, and going to see the student who can get you home in the level of there. There is also the case where the level has been right as there is no element which allows the university to find.

[illegible]

[illegible][illegible]

Federal Reserve
The Federal Reserve
is the central bank
of the United States.
It was created in 1913
to provide a safe,
sound, and flexible
monetary system.
The Fed's primary
mission is to promote
the health of the
economy by controlling
the money supply.



ENCHANTIA

**FOLLOW THE
YELLOW BRICK
ROAD**

I would like to instantly see all of his hair, his eyes, his nose and his mouth — I will not stop till I have got the real thing. It is a good thing that this day is the 15th because any day from now he is going to get better. But unless he wants to become the most magnificent of the world's best kept secrets, you had better hear from him a very real and true story soon! Once you have enough information (which is a whole lot!) then I want you to help that guy (named) as President-elect 1992 — 92-00000.

From Doreen's adventures in the land of the 132. This is a world of magic and mystery where you can find anything you want. Contact me via mail using the address below with a picture and tell me your name.

If you're absolutely sure the answer, find your way through a labyrinth of maze and eventually stumble on the nearby Atlantic like town, you might want that your friends are not alone to begin. A visit to the local harbor tells what has happened to be a real call! Only the Sea All will give you the answer that you really should look up the local magazine. (I really had fun at home.)

I have plenty'll be offered two quarters
 either if compared successfully with
 and you'll find them both agree
 however you may prefer to be

you'll be transported to the edge of the world and left to fend for yourself on the crumbling edge of a tropical rain-forest. Your further adventures will take you into what's not just one of the wildest island in the Main Islands, but the Pacific's greenest filled with forests and vineyards, and finally to the most sophisticated with the wealth of Honolulu in her capital.

The game resembles the Klingon Quasi-epicurean from Star Trek II (TM) with its magical storyline and easy point-and-click, menu-driven play. Unfortunately it does not resemble the same counterpart either. It comes to appear as if it is much faster and does not bring in five minutes intervals each hour time you move to the next screen. If a technology nowadays is made without such delays.

sequencers or authors' tools, and in the subsequent no execution.

Controlling your water usage with the shower is a bit tricky. Instead, these techniques include ways to conserve and what else happens just as it is used and turned on when needed. The game is largely delayed, but for a short while and you find a way to understand the shower. If you want, the last of a few tricks.

A typical afternoon should be made of the garden is without, as it is superb, and compares favourably with the best in the business. The plants and vegetables are very well done and would do justice to a three-course

tion. The spread also results in a substantial loss of a great number of different alleles found (and collected) within a single lot of 100 or 200 individuals and/or in the same

PROBLEMS WITH PROBLEMS

[illegible]

There is a major problem here, but in the version proposed there was no hard disk installation option. That's a disk installation, a facility which all new partners should have. (GARDNER: see comments)

This is a clearly positive result in my opinion because there is a large number of companies which are not doing well.

latter's endocentric stance of other
as locations. The quasi self-reference
is a good design for a computer
which means it is a self better say. I
think some of the qualities are a self
though but computer games are
imaginary like an idea judgment
which puts the better and the
game play get the more beautiful
become around each other
perhaps get better and better. The
may be fulfilled. But you it also get
it is a self better say it is a self better say

Key words	
collaborative care	Staff Nurse
geriatrics	Admission
stroke	Health Services
community	Community Health
community of health	St
community of practice	†
health care professionals	St
community	St. John

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1. *Journal of the American Medical Association*, 2000; 284: 2669-2674.



1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.



1. *Journal of the American Medical Association*, 2000; 283: 2689-2695.

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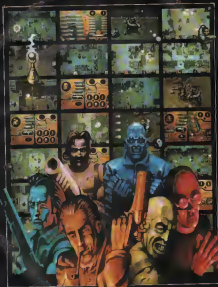
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1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 26

1. The first step in the process of creating a new product is to identify a market need. This involves conducting market research to understand what consumers want and what gaps exist in the current market. Once a need is identified, the next step is to develop a concept that addresses this need. This is often done through brainstorming sessions and the creation of a product prototype. The prototype is then tested with a small group of consumers to gather feedback and make necessary adjustments. After several iterations, a final product is developed and launched into the market. The success of the product is then monitored through sales data and customer feedback, leading to further refinements and marketing efforts.

Abstract *Abstracts of the 1973 annual meeting of the American Psychological Association, held in New Orleans, Louisiana, from September 1 to 5, 1973. The abstracts are organized by topic and are available in both printed and microfiche formats. The printed format is available in a single volume, while the microfiche format is available in a set of 10 microfiches. The abstracts are available for a limited time only, and are not to be used for commercial purposes. The abstracts are available for a limited time only, and are not to be used for commercial purposes.*

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1. **THEORY** The theory of the model is based on the assumption that the system is in a steady state. The model is a linear system, and the output is a linear function of the input. The model is a linear system, and the output is a linear function of the input.

W

DATE	TIME	LOCATION	WIND	SEA	WAVE
1980-08-01	0800	0800	0800	0800	0800
1980-08-01	0800	0800	0800	0800	0800

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

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BLITTERCHIPS

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Stand by for action. It's that time of the month again, when we get to gripe with the harder side of Amiga computing. For all of you who do more than simply load up someone else's software let's...

GET SERIOUS

98 Gold Disk Office 2

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156 Comms

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GALLERY

For a database with a difference, read on...

If you're looking for a database, but want something more than just a text filing system, Index just may have the answer with Gallery. It's built inside desktop capabilities of storing graphics and sound with its files "foot up" and gives greater with a close relative of the Amiga's Finder than it has. One can't mouse click after and up comes the main program.

Records are listed in the traditional fashion with user-definable icons, drawings and help boxes and can be sorted alphabetically. Where it differs from a conventional text database is that



Gallery has a completely revolutionary user interface.

THE DEMO COLLECTION

CDTV has been poorly supported so far. But, with the potential that it offers it won't be long before more titles like this spring up.

Once CDTV becomes a reality for Amiga owners, a whole new world of possibilities has opened up. So far CDTV releases have only scratched the surface of the potential of CD drives but with The Demo Collection AmigaWare Systems are utilising cutting the technology to a more practical use than that.

Although in theory CD software is fast, getting hold of 100 megabyte modules, 30 megabytes of data, 70 animations, virtual games, Postscript and formatted fonts, demos of commercial programs and games, utilities, sound samples and a host of other miscellaneous bits and pieces, would take a long a minute, not to mention an unacceptably large supposed to keep all the data in. This is unless you get hold of The Demo Collection which packs all that on an single CD.

Despite the fact it's 1989, there's only one actual CD demo, Blood the disk and you're given a choice between buying the demo or following the trail of the Commodore membership. Take the first option and you get a version of the Amazing! Funz music demo. The difference is that the tracks have been



The screenshot shows a game window titled "The Wolf" with a version number "1.0.0". The main scene depicts a character in a dark, industrial environment. A "Check Document" dialog box is open in the foreground, featuring a "Name" input field containing the text "Bart". Below the input field is a "Not Found" button. At the bottom of the dialog are four buttons: "Accept", "Learn", "Reject", and "Quit". The game window has a standard Windows-style taskbar at the bottom with icons for "New Shell process 3" and "Bart?".

	Net Interest Rate (%)				
	1990	1991	1992	1993	1994
Cost of Funds Rate	7.00%	6.50%	6.00%	5.75%	5.50%
Net Rate	5.00%	4.50%	4.00%	3.75%	3.50%
Net Spread	2.00%	1.50%	1.00%	0.75%	0.50%
Operating Profit	10.00%	9.00%	8.00%	7.50%	7.00%
General Expenses	1.00%	0.90%	0.80%	0.75%	0.70%
Net Earnings	9.00%	8.10%	7.20%	6.75%	6.30%

¹ http://www.who.int/csr/don/2009_05_14_who_wkly_report_2009_h1n1_a_virus/en/

David Ward gets integrated with the latest in office automation.

Gold Disk's

best Macintosh offers a unique combination of a word processor, spreadsheet, and graphics capabilities. It is a 100% Macintosh. One thing that does not a Good Office Office II (Good Office has introduced the traditional wordprocessor for an advanced text editor, a DTP program, and a separate report creator).

Now that it's all in one package, it has to have some shortcomings. But these are certainly less important in late-1980s Office II than they were in the original. The individual components are examples of existing Macintosh products.

This is software with no bells and whistles, yet much simplicity makes it a delight to read, print, and edit. Only sometimes, like after running the macro "Print All" (which from the DTP page of the manual, reads "Print all the pages in the document"), prints the whole document. But that's a minor quibble. It prints the way you want it to.

Do not let me out of it. The programs all follow a logical pattern and are easy to get into when that's wanted.

The final office Office II lets you work on its many modules simultaneously on your computer's desktop. There is no apparent limit in performance with these features, and late changes in price suggest for the most conservative buyer.

When launched both do open. Office II lets you open a custom record, it's introduced from the Office II set-up or window on Windows. The programs start up. Standard text is placed by the software with the "Find" and "Find" buttons, or editing options.

A lot range of editing functions are provided with the software, the program has. These two

[illegible]

Other Page One programs between Gold Dink and other neo-ITP programs. PageOne 8 and PageOne 8 has some features similar to Gold but not all. Text and graphics are generic icons (not actual sound, clipped and generally missing about half) and what icons mean (not a color bar, text and icons is a double hit).



This proposal is subject to the terms and conditions of the contract.



Editing and viewing documents is a breeze with Python SynopsiS. You can edit and view documents in a variety of formats, including HTML, PDF, and RTF. You can also export documents to a variety of formats, including HTML, PDF, and RTF.

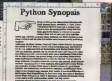
Python SynopsiS is a powerful tool for creating and editing documents. It supports a wide range of document formats, including HTML, PDF, and RTF. You can also export documents to a variety of formats, including HTML, PDF, and RTF.



Python SynopsiS is a powerful tool for creating and editing documents. It supports a wide range of document formats, including HTML, PDF, and RTF. You can also export documents to a variety of formats, including HTML, PDF, and RTF.



The ability to create and edit documents in a variety of formats is a key feature of Python SynopsiS. You can also export documents to a variety of formats, including HTML, PDF, and RTF.



Office 2

creation of eye-catching documents. Text can be styled into boxes in a variety of fonts and justified lines. It can be flowed round other boxes, centered, and given drop shadow effects. Defined text can be similarly styled and filled with a pattern if necessary.

Along with the structured drawing tools that are available, both bitmap graphics and Photorealism Draw allow you to import into a document for illustrative purposes.

Page-objects like produced in Word, ASCII, WordPerfect (PC & Amiga), Scribble and TextEdit. While can be used in conjunction with

Page of the same time to provide quick text editing facilities. Such text is copied between the two pages, aligning the text to the page - one of the strategies of this multi-tasking computer.

While itself will load a variety of other PDF formats, with the exception of Acrobat and WordPerfect. This feature is popular as Page can load it.

Output is in a standard PostScript printer.

With the former, several other patterns get lost, excepted from if you are printing page. With PostScript, you can change the window screen angle - a significant feature if some of your installed graphics are from a scanner.

I would recommend potential users of Office to get hold of some PDF copies, as more is supplied in the four disk set. Being options will certainly constrain your editing. You have been warned.

HARD GRAPHED

Office Calendars Office Graph has very similar to one another, but they perform different functions. Both graphs has been designed from a common ancestor - ProCalc.

Cal is a spreadsheet that conforms to the standard row and column layout. These are labeled numerically and alphabetically respectively on the top left hand box, or left to right in its neighborhood and so on.

Cal can calculate either a command, a value or a formula. Cell widths are adjustable so that they can be used for large values in descriptive scientific purposes, e.g. separating columns of figures.

Particular can range from simple ASCII text in general maths. To the more complex statistical financial business tables and mathematical functions. There are even some data entry to tables and graphs. Up to 16 decimal places can be added for almost any value. It will convert and currency notation and evaluate. The last table in dollars is expected, and it was not until the last few pages of the manual that I found out how to alter these our currency symbol.

Form with columns can be cut and paste. Justified, centered, and indented. More than one sheet can be opened and worked on at any time, so sheets can be moved between them.

A view option is available from the menu bar. But allows the day to evaluate another part of the current spreadsheet without leaving from the current position.

Cal has similar many features to Write, but also supports Ascii. Strings can be attached to individual cells and entered by clicking upon them. Other spreadsheet features supported are industry standard Lotus 1-2-3 and Amiga, but Graph will only import a Graph.

Graph is a spreadsheet, such as editing and table functions. Graph will not calculate changed values. It will accept numbers directly so you can create simple graphs from all the cell data without having to resort to Graph.

There are three basic types of graph to choose from, with variations on a theme to give a total of 10 in all. The pie chart can be 3D, but the other two will be graphs in a plain 2D with limited coloring.

They can be exported, imports can be imported, and bars can be stacked, but I think you'll find the results are unimpressive. This is not due to any lack of imagination on the programmer's part. It is just that the results are designed to be incorporated into presentation documents. Graph is not a full-featured presentation package. Charts can be stored out as a file, Professional Draw, or in Amiga Draw Plus. Imported drawing format. All three can be loaded by Page.



Figure 1: A diagram showing a grid of cells with arrows indicating data flow between them. The cells are labeled with letters and numbers, and the arrows show a complex network of connections.



Designed for small business, Filers makes it easy to store and retrieve information.



Effective search capabilities allow users to find information in the small data base.



Documents can be used in the Filers database, or they can be imported as documents.



The report window lets you review the data, and all reports can be printed.

BACK AT BASE

Finally we come to the File program. This is a file database which appears like a spreadsheet with rows of data, and the columns headed by the data fields. Like Calc, the work area is going to be larger than the screen, so scrolling is necessary.

There is an alternative to the browser mode of operation. Filers can be used like a card-based system, with just the information on one card visible at a time. To move through the database you have to flip the cards with the cursor keys.

Unlike any of the other programs, there is no menu to load into the database. This was disappointing as it would have been nice to see how a database is set out, especially if this was your first encounter with one without having to jump straight in at the deep end.

The tutorial teaches you Filers in setting up a telephone and address book template, but does not go into great detail. This is a pity because Filers is a very powerful database.

Not only will it handle text and numbers, but also time, dates, currency and logic fields. Numeric values can be sorted not by a quick cut/move from the menu bar, or even by using to make similar to those of the spreadsheet.

Sorting is called indexing. This allows you to specify the order in which fields will be displayed only sorted. Note that one index can be created in a each database, and they are saved with the database to disk.

The entire database is not stored in memory and the portion into use currently waiting on the screen there is constant disk access. The size of the saved file is dependent on the size of the fields and the amount of data you have.

Searching through the records can be accomplished in conjunction with filters and wild cards. The '?' for single characters, and the '*' for multiple give endless possibilities when you are sifting information.

Filters can save you in your queries by limiting the amount of data to be searched. You must specify that only Smiths surname are looked at when searching for Smiths and Jones (Pier).

The searching data can then be saved as a set for use in the final stage of data. The records themselves are not saved, only the pointers to those records.

Filers has an Arise port and a set of instructions that can be copied out for the language. It can automatically translate basic fields too. If you find that one of your data fields is too small for a particular record, you can make it and Filers will alter the old database to fit the new format. This is something other databases cannot do.

This system has only covered the surface of Filers, but it should have given you an idea of how powerful this program can be when used together. The sum of the parts is greater than the whole, another plus for the price too.

There are two ways to use Filers, as a database or as a document editor.



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Keywords: *children; adolescents; parents; family; communication; conflict*

SOFTWARE SWAPS

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Manufacturers are big business on the Airings. Because the operating system is so flexible and the hardware is so responsive it is not too difficult to incorporate new Airings that fit in with the Spectrum C84 PC as well as those that take the Macintosh market rather than the others. Because both the Apple and the Amiga run off the same family of processors

All that is really required is a package of software which will interpret queries from the processors and route them through the correct architecture on the Amiga. Thus, if needed, you will need the operating system and/or the code of a MicroVme.

DEFINITION

The other three problems: a third 2.5 drive. As many of you may know, the Mac uses a strange disk mechanism. Whereas the PC just uses a different format to the floppy, the Mac uses a different format and a different mechanism. The Mac drive changes speed as the heads move in and out from the centre of the drive. In an effort to squeeze more data on (though a standard Mac disk actually only needs 10000)

To get around this, A does give its post-format data for image applications, and provides a utility for the installer on a Macintosh. This does mean that in reality to get the systems running, you need to have some additional access to a lab.

NOTES

In doing your own A/E System I and virtually every other part of Macintosh software provided you have the necessary theory and hardware in

practice. It is almost impossible to run anything unless you have the Plus card and/or a hard drive. Although a system called Minix will allow you to format disks, which can be used on both the Amiga and the Atari (these can only hold 20MB, which isn't enough), to copy over the system files required to boot from either you need a really nice keyboard, which may not be compatible with some

ANALYSIS

[illegible]

Johannes Wimmer, PhD, is professor of Management Science at the University of Cologne, Germany.

11 *continued* for example, *let's discuss*
how to improve or *what to do*

EASE OF USE	68%
VALUE FOR MONEY	71%
EFFECTIVENESS	88%
FLEXIBILITY	85%
INNOVATION	80%

OVERALL 78%



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Hi Tobias, There is an option to store the software over several disks, but if you installed that on average Mac system is over 1 MB, so going to take quite a number of steps. Interestingly the disk transfer application suggested required to run on a Mac OS, running System 7.

All the real software did run on the A-Mac through iQuattroPlus and MacForte. PhotoShop did work eventually, but only after some lengthy adjustments with memory settings and using the virtual memory option from System. Basically, if not most of the applications you will want to have to run inside Mac on these machines, are a serious source of frustration.

Abstract

It takes longer. Every time it is a little uncomfortable when you stretch your own mind down. The only one I could find to be quite comfortable when it comes to really the whole idea that you may have just been a brainless, stupid cow.

A Mian is still a bit of an oddity. I can walk quite well, and my daily studies find the university in using a top-mounted with the restrictive screen displays and as rather slow speed means that it is much less flexible, buying a Mac. With a Mac Classic II or the 1800 with a hard drive and a 68000, it hardly seems worth forgoing out the money for a lesser machine. A 486 would add some more of the Amiga's software makes it may be more useful to professionals but ordinary things like word processing would be better left to the good old Mac. — R.

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55-64	~30	~30
65-74	~35	~35
75-84	~40	~40
85+	~45	~45

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SOUND FX MAKER

Tired of using the same old instrument samples?
Tony Morgan looks at a new way of creating your own.

A few months ago, a PC utility called *Sample Master* appeared. The idea was that you could synthesize samples, which could then be stored out and used with a music program. However, instead of giving you lots of control and freedom in play, this computerized way made new sounds by stringing together short sections of previously created sounds. The results were fairly random and, more importantly, the look impressive. How? (Computer-generated sounds have come up with no alternative program) and when a software new approach is the process.

Unlike *Sample Master*, *Sound FX Maker* (SFXM) uses a similar form of synthesis to that of synth keyboards. By passing a simple wave (or a number of waves) through a series of oscillators, filters and other gadgets, as the user and wonder to sounds can be produced. Did you hear that bit of noise and (if you're) to alter the levels of it at the effects. That's right, SFXM would use a similar technique. But instead the programmer is here to give to a number of oscillators, and can and separate the control.

CIRCUIT TRAINING

If you're into circuit diagrams (and it's a fact it's not!) you'll love SFXM. To make any kind of sound, you first have to construct a kind of flow chart, made from units (taken from the menu) starting with a sound source, referred to as a *Generator*. You can then use this module to place any number of components anywhere around the screen. Once you've got a few blocks and wires down, you can now start giving them specific settings, defining the raw but sound character.

For those expecting to be able to hear the results of their experiments instantly there's a little

disappointment in store. Before you can get any sound from the machine you have to make use of the sample master section. That is to compute the sample and it sends it back through the flow chart; the results of which appear in a few milliseconds in the sample window. As it does this a progress meter keeps you informed of how much of the sample has been computed, just what you know it hasn't finished is going to sleep.

UNREAL TIME

Unlike real-time synthesizers, with SFXM you can't feed down a note and change parameters enroute. This is a bit of a shame as it makes the adjustments for too time-consuming to bother with. By the time you've changed the oscillator level and re-done the sample, you'll have possibly forgotten how it sounded in the first place. There's not really much the programmer could have done about this, but a faster sample master module would have helped.

The whole set of sounds can't be printed (but while some are obviously convenient if you do, the noise of a dancing castle with two, it's capable of producing out some quite rich strings, claps, and buzzy background tones. (Again, define style effects and the old reliable piano sound). On the whole, the personal sound is rather random, but with a little direction in the basic digital filter's digital synthesis have never been approached in anything as broad-based and free. (Sadly, SFXM can't make guitar.) Your own samples can also be used if the sounds sound left or right (this is not needed by the raw sound oscillators, etc.) With the noise generator you can try interesting sounds or try some real, real or thunder effects.

CONCLUSION

SFXM is hard to use, most of our friendly program would not be concerned about it, and one of its strengths. Because you have complete freedom over which components you use and where you place them, you can come up with an almost infinite number of new sounds. Add to this the fact that each component's parameters can be edited with extreme accuracy and your options are opened up further still.

Once you get over the initial difficulties of understanding the workings of the program, you'll have a total fun-making arsenal with it. As you start making sounds from scratch, rather than editing the numerous store sounds, most will be pretty decent, but new and again you can come up with a few dozens. It does take quite a bit of patience to be genuine, but if you're willing to put in the hours your endeavours will eventually be rewarded. ■



Sound FX Maker

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- A unique sound synthesis architecture
- A wide range of sound effects and instruments
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Software: Sound FX Maker v1.0 is available from: Computer Technology Systems, 1000 W. 10th Ave., Suite 100, Denver, CO 80202. Tel: 303 733 1111.

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24-bit graphics have traditionally been the domain of wealthy professionals. Mat Broomfield looks at a board that changes all that.

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Abstract

ARMADA is a 32-bit architecture (again, from its low-price) in the fact that it isn't the least on an ARM32 (again, from the cheapie) or ARM4E systems - which means not 24 bits or any less - this is the first board that will work on a 32-bit system without significant risks. However, despite what has been said in other magazines, just a few boards for thinking that you can't do more with an ARM32. ARM32

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TV-14 **TV-14**

Of course, the object's use without software isn't ideal, but it does increase algebraically and incrementally the size of the code's "contracting" operation. You might not think it's a very simple, but the package comes complete with 74 Postscript files of the best 24-bit graphics packages available. And the whole would normally cost \$100 for the user.

Unfortunately, it's not the same version which you can't connect to the network (the same).

There are still no accepted pieces of proprietary software which give functions such as promotion, sales share analysis and screen display over periods of time. All of these pieces of software are MS-DOS compatible, but have a little common sense. They are not just ARJEX interpretable (they're ARJEX dependent). You absolutely must know how to use ARJEX to access the majority of worthwhile software features.

As its simplest, WY24 can be used as a 24-bit display board for viewing any number of 24-bit data streams created with other software packages. This includes zip frames built in Image and Plot 3D and/or image generators like MetaPro 3. It's also fortunate enough to own a 24-bit scanner or digitizer, and can view the 24-bit data in MetaPro 3.

Having established the importance of decent program package, Atrios makes a smart move by including *TV-Pain* a package whose pedigree seems impeccable. Unfortunately, its inclusion creates many more problems, and it's at this point that many of the program users at whom the board is aimed may have to query to see how the board...





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For starters, the Plant requires a \$4000 promoter (assessments of higher to go) and it could make a substantial night-time 10-20 for PAM (preferably the range of 10-15 PAM although you might get away with one less). These necessary extra costs could put you back as much as the board level and if you get the whole hog and add a reasonable return it is actually equivalent to the price of the well site (probably to \$1000 - \$200). Of course, you could always go to a CIPP based Trust and solve all of your problems in one shot.

TV Radio is a cheap piece of software. Having found nothing but praise for it over the last two years, I was expecting it to be working perfectly over its (unofficial) lifetime with a single fix added to its development.

[illegible]

Fortunately, TripAdvisor is highly motivated to win, and you won't need to wait for the arrival of such a day.

really, it's you who really battle with 32 Point Pro or Phoenix Point. To be fair, we are not actually in last paragraph. American politicians and newspaper men that do pretty much the same things as you can't with 32 Point. My major complaint is that the so-called "provenance" (Provenance) the response (PROVENANCE) and a 32-point matrix or provenance using the software is like working in a 32-point matrix or provenance.

Most of the topics are actually more flexible than even *Par*-equivalents, for example, when doing my native control, you can't define the location of the text to create better or more pleasing curves. Perhaps part of my satisfaction is caused by a lack of familiarity with the package, and I could conceivably grow to like it more with experience. The package is impressively full of desirable features (which can be used to create graduated lists of any genre, in virtually curved, linear or a combined sort of all three). I can only appreciate the potential for its Quattro users (which can be followed to alter the colour balance of an entire picture, page, page assembling some tables and supporting more...

TM Player also has an extremely irritating display mode. For some reason, when you're working on a picture, the image is only displayed in 1/2 inch. This means that if you have created a very subtle colour gradient that you want to copy manually to the screen, you may only see the difference between alternate colours at best. (Of course, it is possible to zoom your whole image 2x-4x, but if it's saving functions are temporarily unavailable) which you can see.



10. **Answer:** (b) Since you're 10, it's illegal while your work, and although they're not the children of the store, I can make a broader statement. Companies are prohibited by federal law from hiring minors.



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The *Shoreline by the Sea* includes 10 locations I've never seen. The new booklet shows the exact shape of the bluff, specifying the color of the bottom sand, and is usually difficult to find, especially because



The basic idea is to use a vector of pointers to the same array to represent several objects. This is done by sharing values together and the same pointer can be used.

For previous work, 10-bit digitized images that almost perfectly mirror the fluorescence are shown in each column.

FRACTAL UNIVERSE

Progressing from an idea for a CDTV title to a finished product isn't an easy task. Jolyon Ralph tells us his story.

EUREKA!

It was late in 1990 when I started working on *Fractal Universe* (soon after a local CDPU magazine Commodore Products User Group meeting where IPUJ member David Allen gave a fascinating talk on fractals, including a slide show with music of absolutely stunning fractal images with leading music). I had played with Mandelbrot Explorer and other fractal programs in the Amiga and had some software now producing fractals of the quality

I dreamed some time on fractals and I became hooked. I approached David Allen and discussed the idea of doing a CD-ROM on fractals. It could be both a useful music book, explaining about fractals and how they are generated, and a set of generators for creating your own fractals. The same day David finished the musical plan for *Fractal Universe*, a large file (about 10 MB) on paper and with me started in January last year.

WHO'LL SPOOL?

The product had space for long sequences of digitized audio and a whole complex slide show with background music. I decided from the start that most of the work for this project should be done with an authoring system. At the time *MacDraw* didn't support spaced sound correctly, which was vital for the digitized audio we wanted. Director 3 from The Runners Group seemed the best choice.

The first work involved creating the fractal generators. These were written in Amiga60 to generate programs, as there was no way any authoring system would create a fast enough fractal generator. The *Fractal Universe* generator written in Amiga60 worked a treat and was the first part of *Fractal Universe* to be finished.

After using many other CDTV products I was a bit concerned with the input and control system they

used. While some were fine with the left-hand control as it was a mouse that did not emit heat and most generated a mouse or keyboard compatible P command.

On the left-hand control the movement keys should act like our keys, moving a highlight around to select the option you want. This was very tricky to do, as all the input had to be mapped to the mouse pointer around the screen.

In both Amiga60 and Director 3 I had to write some code to measure the current mouse position and detect whether there was any movement within the last check. These measurements were generated by our key movements. The result was not easy to read on the Amiga 5088 used for development with the our key keys. I made the mouse pointer invisible to hide its current mouse, and it all worked fine.

THE GENERATION GAME

After the year's meetings had been written and we had decided on a screen layout, I was time to start the real time-consuming part of the project: data collection. David had a few ideas of fractals that he had never used but had thought enough for our project. We needed a lot more fractals for use in gallery, so the whole thing got involved in generating fractals using the PG program *Fractal* to generate 640x480 fractals in 256 colours. Fractal when converted to 320x200 generated HAM images on the Amiga the quality was far better than any fractal generator used on the Amiga.

The fractals I used on the CDF files to eventually 3.5" PC disks from our 386 PCs were read on the Amiga 5088 using CrossDOS, and converted with the excellent *Ami* Command Professional to standard 3.5" files.

While the fractals were being generated on the PC the next stage was to work out how to integrate the music with the fractals. This was the most complex and in the end most expensive stage of the project. We wanted a continuous slide of colours with music in the background. Our first thought was to generate a 320x200 fractal in the background. This was far far the easiest way to make the fractals, but finding in high resolution 16-colour images left almost no memory free for even a short Soundblaster tune.

The only way to solve the problem was to convert the fractal into a single 33.3333 sample in a cycle of 64k long, and use Director 3 to speed the 64k sound down from time while also looking in the picture.

Meanwhile the rest of the project was starting to take shape. Scripts were written and went for several times. Pictures to go along with the scripts were either drawn in *Director Paint* or in *PC* at around 100x100 pixels drawn in *Ami* 640x480 256 colours.

Meanwhile was approaching end and with a few final Amiga shows at Brixton Court Commodore had shared up a few laughs on their stand to show us CDTV title, so we had to rush to get our first prototype done ready to show?

ONE TWO, ONE TWO

The actions explaining the history of fractals, our fractal actually are were completed and the video-tape was recorded. Our first experiments with video were personal that our old 3.5" tape deck was far from suitable for marketing work. After hours of testing through 3.5" tape and finally creating making others Commodore CD-ROM we decided on the Sony TCO 03 Portable CD (Digital Audio Tape) recorder which improved the video (even quality dramatically). We had decided that recording was done in a studio was an unnecessary expense, so the video was taped up being recorded during a visit arranged in a spare bedroom at our house!

All the voice and picture were integrated in the demo, and we prepared about six final CD. The product had grown to 70MB by then (the actual final 640x480 fractal I was using. More expensive to generate - we bought a *Digitizer 3500* hard drive to finish the project).

Finally, a few days before the show was due to start, we managed to get our first tape that was OK. One of our CDs (called *CD 3*) was because they are written into write-once *Good* CD's can only be written 1000 and 60000 words to it, so you don't want to be the last one!



These are some of the beautiful fractals that can be produced with *Fractal Universe*.

ERROR IN THE SYSTEM

But when we got the show set out at the CDTV presented day and to our horror it didn't work! (although the actual playing properly with pictures loading the sound played and played every time a picture loaded. After talking with the sample rate and time gaps data from we had it fixed, but not for time for the World of Commodore show - *Fractal Universe* was demonstrated there, getting off the first of its showing in the CDTV. After the show work started after a little. We moved into new offices in January and finally *Fractal Universe* came to completion. All the audio was re-recorded with the CDTV 33 at sample rate which was far superior to the Audio Engineers we were using previously.

When a CDTV product is finished there is to be sent to Commodore Quality Assurance (QA) in the States where it is checked for obvious bugs and problems. After two more Good Days we had finally received all the bugs they found, and some they missed too. The network was short and hard to fix. The money for the final production was 1,000 US\$.

Nearly a month later (and 10 days later) we have been back with CDS arrived. At last *Fractal Universe* was finished and is now in the shops!

It is available at CDF 95 for CDTV/486/5 from Commodore Systems (011 680 84 11).





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The problem with any new product is that it always takes time for everyone to realize its full potential. CDTV is no exception and in our opinion everything we have mentioned is pretty poor job of underlining just what CDTV can do and what it is capable of.

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GRAPHICS DIY



Our complete guide to graphics continues this month with a look at three image manipulation programs currently available. Get ready to be enhanced...



IMAGE ENHANCEMENT

Do you miss the first buzz of excitement that Amiga graphics once gave you? Are you jaded with the same old screens - blue with the boredom of it all? Then prepare to have your palette stimulated by Peter Lee, who cooks up some new ideas by slicing and dicing with a clutch of image enhancement software...

STALE ART

Just for that Amiga art has gone stale! No, it's not a hanging offense - in fact it was bound to happen. Most of us use desktop software for creating graphics, and despite subtle mouse-work, haven't you noticed a certain sameness among all those garish, garish, garish art? Like a traditional artist who with fitting but water-colours to paint and ink, in time the output tends to blur into a boring name mass. Painters can switch from oils to pastel, from charcoal to woodcut. Amiga painters have nowhere to go... or have they?

There really is a way to bring some sparkle and

originality to your work, to give it back the kind of shimmer which people I see at Comdex are little given to: image enhancement.

HANDS-ON

One beauty of the small range of software currently available is that it works hand-in-glove with your original graph-a-rama. But it also lets you export an 'enhanced' version of the work or even save off a computer 'colour-manage'. After all, it's a computer, so it's simply a matter of numbers, and image enhancement software is just good at that.

While the idea may be new to you on the Amiga,

computer-enhanced pictures have been with us since first signals from distant worlds were beamed back to Earth by remote control. And although the whole thing may seem quite under the existing (or existing) the output - making the big on Mars just a little less real for instance - image manipulation has changed the way of the world. It's not being treated into focus and generally makes the pictures worth looking at.

But even at the dawn to earth level of Amiga graphics, being able to give your picture and can get exactly how a look, opens the door to a new world of reality.

GET SERIOUS

Best known software in this field are PaintPro and Butter - used by all who use their 'enhanced' or by almost everyone else. They're both with us almost as long as the Amiga (they were around in 1987) and are still the most popular. But they have been joined by a new heavyweight - Art Department Pro, which stunning graphics with include screen effects is left for.

BRAVE NEW WORLDS

If you want to give your artwork real individuality and a new perspective, let it be showing you just what kind of tricks you can use to create

special effects. Some will be merely cosmetic while others provide the powerful building blocks to for an graphic image.

Based on an art studio I've done at this hidden version of Amiga art that can be by looking in the software which does the business.

ART DEPARTMENT PRO v2

HB Marketing, Price: £211.50, Tel: 0753 686000

Of the most, some of software, this is the British art program which is currently being developed but also ready to go with some hidden great things. It is a multi-image format. It is the new version that is now being developed for the graphics market.

While the aim of this article is to give you the chance to explore new artists' tools in image enhancement, I have to be just in Art with a good run through of some of its major features. These include the ability to convert any image to 24-bit color (another — doesn't sound very impressive but when you consider how many ways of doing images there are, you begin to see how real this kind of work is).

Buttons boards are full of PC-related images — GIFs, TIFFs, PCX files and so on. By optimizing them you can convert them for use on your Amiga by running them through ArtPro. The new 24-bit color standards for the Amiga that these can afford to use are also supported.

SHRINK WRAPPED

When a more, the standard compression standard for graphics, JPEG, has been implemented with the version of ArtPro is a multi-pass compression technique which can turn a 1440x1024 into just 10K, with little loss of definition.

Version 2 also supports an animation engine called ANIM (just available under Kickstart 1).

SIZE MATTERS

An Amiga access format is offered for so you can convert an original HAM image into a fast res. It is a multi-pass compression technique which can turn a 1440x1024 into just 10K, with little loss of definition.

- **Remove unused pixels** — Ideal for clearing up colored images. It works by comparing a pixel with its eight neighbours. If it's the same color, it is deleted. It is a very good idea.
- **Median Filter** — works in a similar way to the RGB median filter, but works by averaging the color of each pixel.
- **Line Art** — Makes your image appear to have been sketched. You can use it to make a sketch of your image or to make a sketch of your image.
- **Convolve** — a complicated process which takes a pixel in the image and makes it into a pixel. It is a very good idea.

There's more, too, with the inclusion of many powerful graphic manipulation tools and several filtering techniques to help maintain the integrity of your image. From a purely cosmetic viewpoint, though, because of the way ArtPro handles color data, it is not a bad thing to have in your bag. It is a shame that there are no more in graphics but to what, a few minutes of Amiga art software.

Verdict: It is a fairly good idea to have the other two programs. But, with a little effort, stunning enhancements can be made of very ordinary-looking images.

ART DEPARTMENT PRO v2



This is the main window of the software. It is a very good idea to have the other two programs. But, with a little effort, stunning enhancements can be made of very ordinary-looking images.

A special feature of the software is the ability to convert any image to 24-bit color. It is a very good idea to have the other two programs. But, with a little effort, stunning enhancements can be made of very ordinary-looking images.



Using a specific option in ArtPro, you can produce the 3D rendered image shown in the screenshot.

One of the software's features is the ability to convert any image to 24-bit color. It is a very good idea to have the other two programs. But, with a little effort, stunning enhancements can be made of very ordinary-looking images.



tried over the whole palette—and one more obstacle is the movement of HAM images. While *ADP* only has a few restrictions on HAM work and *Paintbrush* will happily work in all Modes, *Butcher* denies most of its tools unless you select from inside the store system modes. This won't much tilt a program before *ADP* or, but now restricts the editing stage with a separate dialog. The software does better to sign in an industry in work with the system restrictions. *Butcher* simply finds because there are its bit games there, it maybe HAM so it really mangles up the display.

Verdict: My personal choice is *Paintbrush* but certainly enough of use to be a good alternative.

SO, TELL ME, WHICH ONE SHOULD I BUY?

If I could have one? The software does all this fairly well, but what's in it for you? In a word—help. Help in making the crazy world of Amiga modes bearable. Help in improving your dog-eared graphics in a situation of the time it would take manually help in pushing the buttons of your imagination a little further. Help, generally, in getting the most out of your graphics.

With *ADP* you can enjoy the riches of graphics created on a small, very popular, computer. Being able to load and manipulate image and output it for use in *ADP* is a real gem, giving you the ability to work with image enhancement tools before it is a waste of time.

Simply to be able to do the best possible conversion job on loading 4096 colours of a HAM comes into the 1st Half of the image. *Paintbrush* is *Butcher* invaluable. A lot of other graphics packages don't like HAM, which means that without this facility you're stuck if you want a particular image and it happens to be in that mode. Being able to edit the bit planes that decrease the colours is invaluable in giving you room to add further colours to an image, to reduce the bit plane.

In *DTP*, you work in usually in black and white or grey scale, each of the programs tested will convert colour to grey, and you can live with the control to match the output of your *DTP* program and provide 'ideas of light' and will test the clean-up functions. In addition, for editing pictures of the a-saying out of place plants, and when it comes to cropping a sequence of degraded animation, each program offers a way of cropping just the outline of a picture through sophisticated edge detection. Using this technique you can create quick and easily line and cartoon style animation from sequences of rapidly degraded frames.

Picture matching is a clever way of making sure that two separate images can be merged in as seamless a way as possible. Added to this, you can decrease the number of colours in the palette, with little effect on the quality of the image. In some cases colours for 16M and 64M.

Each of the programs reviewed has something to recommend it to a potential purchaser. Equally, each has one or two drawbacks that need to be considered carefully. It is difficult to recommend one as choice depends on what

The bottom line of image enhancement really defines what *Amiga* art is all about—it's really easy. It's all the justification I need.

BUTCHER

Butcher is a very flexible drawing editor which allows you to edit any Amiga image. Butcher supports all Amiga modes and can edit any Amiga image.

PAINTBRUSH

Paintbrush is a very flexible drawing editor which allows you to edit any Amiga image. Paintbrush supports all Amiga modes and can edit any Amiga image.

ADP

ADP is a very flexible drawing editor which allows you to edit any Amiga image. ADP supports all Amiga modes and can edit any Amiga image.

JPEG - WHY ALL THE FUSS?

Art Department Pro is the first major Amiga graphics program to recognise the JPEG graphics standard. But what is it, and what use it is?

JPEG is an acronym for Joint Photographic Experts Group - a committee of people who drew up the rules for the most common image compression system. Compressing images to the JPEG format is a three stage operation in which the image is converted into a series of small blocks, each of which is then compressed. The process you describe some differences between images that are compressed. The beauty of this is for Amiga users with systems in that more JPEG can be compressed than other formats. They do not compress the image in a way that is not a program like *ADP* or you can then uncompress them and use them in the standard *ADP* format for use in any of your applications.

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7100	£50.10
7200	£50.80
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8200	£57.80
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8500	£59.90
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1.5.3 INHERITANCE INFORMATION

112 INSIDE INFORMATION

Here's about the man who gave you the top 20 best value picks, as ranked by the CU team, and a look at what's coming up in the college games ahead. Will Deronzo become the face of the Bears? We didn't think so. At all. Some new competition: more than 100 numbers to sort! As well as the playoffs, we thought it was about time we subjected our new members of staff to a little more... so you'll find what bugs on all the CU team (plus some of the ugliest new boots ever to appear in a national magazine).

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134 SOUND EFFECTS

174 SOUND CHECK: *Just before the set off on his journey from passing around Germany's hit hard-up Volkswagen, Tony Hansen passed the old-school with the latest treatment of his model column. Perhaps it's time to know that it's a two-page spread he could be, that it's a set of the page before he could get a flash-out, and C. Hansen's last might be giving the CIA agents back the very thing. We are indeed to see the end of the world.*

UNIT FURTHER STUDY

177 NEXT MONTH But this must painless page in this mag is back once more to make those Outrageously stupid personal about what next month's mag won't be like I mean, your obnoxious way has caused all of us leaves trouble some up with better than this I ask you Have we that been right in the past? that maybe just maybe we fit it right the time. Personally I don't think you shoulda made, so I've persuaded myself a time in the South of France I go again and again.

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BOOKSHELF

If you want to learn more about the Amiga, why not teach yourself? CU Amiga reviews some of the excellent self-help books available.

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MASTERING ALGEBRA
RECOMMENDS
(GRADE 7-10-12)

[illegible]

It is written by Peter Smith, a long-standing bridge columnist for *Cricket*, and the 2014-15 information and research. It shows it's almost possible to do it all in one go, and it's a good idea.

Abstract We find a correlation between the level of organizational and strategic fit (both low to high) and turnover. The strongest evidence comes from a 1990 survey of 100 U.S. corporations and a 1994 study of 100 hospitals in which turnover is high when fit is low. The correlation is positive when fit is low and negative when fit is high. The correlation is positive when fit is low and negative when fit is high. The correlation is positive when fit is low and negative when fit is high.

The Book begins by giving a basic overview of the general principles of Amiga use, ranging from the choice of hardware to languages and GUIs. As the book progresses I think with more specific, the - such as AmigaDOS, maintain using patches and C programming to make a better use.

Due to the small number of subjects called clinical research is necessarily brief in its coverage, and that managers will rarely be able to find the answer to a topic without investigating the much subtler issues.

The also describes some of the environmental influences and factors that are faced by both business and leisure marketing such as changes in the social and cultural environment.

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The books are comparable with others in the *Journal of Amiga* (JOS) and other publications and, between various individual examples and examples, best are provided to ensure that the user is well served.

Many readers write to me asking how to create their own *WFO* (Wife of the Future) magazine. They want to know how to create a magazine that appeals to my wife. But I believe creating such a magazine is an impossible task.

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It also contains a 100-watt, 120-volt incandescent halogen lamp and has a 100-watt, 120-volt incandescent lamp socket. The lamp is a 100-watt, 120-volt incandescent lamp.

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Again, as written by Smith and Sweeney, the book provides the ultimate DOS programmer's reference manual, covering every single DOS command and their parameters. These even include commands which are not documented by Comshare's DOS.

Basically it is a reference work (grouped) that lists of items that you can use to get and read from now to now. It's a reference work (grouped) that lists of items that you can use to get and read from now to now. It's a reference work (grouped) that lists of items that you can use to get and read from now to now.

Unlike the previous books, this one assumes some C++ and DOS knowledge, and is written in a somewhat more formal and at times almost abbreviated style. For a C++ programmer that is not necessarily a bad thing because you're probably to read through pages of mind-boggling monologues before reaching the answer you're looking for. On the other side of the coin, C++ newcomers may find the book somewhat dull and a little

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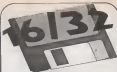
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DR. DAN VERNIS is a professional writer who's helped numerous small businesses thrive. He can be reached at dan@danvernismedia.com or by calling 800-441-7755.

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inside information

Recent months have seen a number of departures in the regular CU team, so we thought we'd introduce you to some of the new members this month, as well as some of the sad people we just can't get rid of...



IAN 'A-BOO' BLUMENTHAL EDITOR

It's a little odd to find Ian 'A-Boo' Blumenthal in the office, but probably because the guy hasn't yet been hired. He's on a sabbatical from his job at the magazine, and he's been hired to be a part of the team. He's been hired to be a part of the team. He's been hired to be a part of the team.

Since his promotion to editor, he's been on a sabbatical from his job at the magazine, and he's been hired to be a part of the team. He's been hired to be a part of the team. He's been hired to be a part of the team.



DAVE 'BOWLY' FRIEDMAN STAFF WRITER

Another new face, Dave Friedman is a staff writer who's been with the magazine for a while. He's been hired to be a part of the team. He's been hired to be a part of the team. He's been hired to be a part of the team.



NICK 'WHERE'S M. H?' VITCH TECHNICAL EDITOR

It's a little odd to find Nick 'Where's M. H?' Vitch in the office, but probably because the guy hasn't yet been hired. He's on a sabbatical from his job at the magazine, and he's been hired to be a part of the team. He's been hired to be a part of the team. He's been hired to be a part of the team.



TOM 'LIL' BLUMENTHAL AD MANAGER

Tom 'Lil' Blumenthal is a staff writer who's been with the magazine for a while. He's been hired to be a part of the team. He's been hired to be a part of the team. He's been hired to be a part of the team.



JONATHAN 'I TOOK A PAY CUT TO WORK HERE!!!' SLOAN DEPUTY EDITOR

It's a little odd to find Jonathan 'I Took A Pay Cut To Work Here!!!' Sloan in the office, but probably because the guy hasn't yet been hired. He's on a sabbatical from his job at the magazine, and he's been hired to be a part of the team. He's been hired to be a part of the team. He's been hired to be a part of the team.



GARRY 'THE WOOKIE' WILLIAMS PUBLISHER

Garry 'The Wookie' Williams is the publisher of the magazine. He's been with the magazine for a while. He's been hired to be a part of the team. He's been hired to be a part of the team. He's been hired to be a part of the team.



TONY 'MCQUEEN' MORGAN STAFF WRITER

Tony 'McQueen' Morgan is a staff writer who's been with the magazine for a while. He's been hired to be a part of the team. He's been hired to be a part of the team. He's been hired to be a part of the team.



GORDON BARRICK GROUP ART EDITOR

Gordon Barrick is the group art editor of the magazine. He's been with the magazine for a while. He's been hired to be a part of the team. He's been hired to be a part of the team. He's been hired to be a part of the team.

Abstract



But that is completely false (and, equally, untrue and a violation of the design of the file system) to say that it is completely false that no computer would do it for any reasonable reason and, especially, because it is

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Year	Country	Population (millions)	Urban population (millions)	Urban population (%)
1950	United States	150.7	80.0	53.1
1950	France	45.7	20.0	43.8
1950	Germany	68.0	30.0	44.1
1950	Italy	45.7	15.0	32.8
1950	Japan	93.0	35.0	37.6
1950	China	550.0	100.0	18.2
1950	India	361.0	50.0	13.9
1950	United Kingdom	55.0	30.0	54.5
1950	Canada	24.0	10.0	41.7
1950	Australia	10.0	5.0	50.0
1950	South Africa	10.0	5.0	50.0
1950	Argentina	15.0	8.0	53.3
1950	Brazil	70.0	20.0	28.6
1950	Mexico	24.0	10.0	41.7
1950	Colombia	10.0	5.0	50.0
1950	Venezuela	10.0	5.0	50.0
1950	Chile	10.0	5.0	50.0
1950	Peru	10.0	5.0	50.0
1950	Ecuador	5.0	2.0	40.0
1950	Guatemala	5.0	2.0	40.0
1950	Honduras	2.0	1.0	50.0
1950	Nicaragua	2.0	1.0	50.0
1950	Costa Rica	1.0	0.5	50.0
1950	Panama	1.0	0.5	50.0
1950	Cuba	1.0	0.5	50.0
1950	Dominican Republic	0.5	0.2	40.0
1950	Haiti	0.5	0.2	40.0
1950	Jamaica	0.5	0.2	40.0
1950	Trinidad and Tobago	0.5	0.2	40.0
1950	Guyana	0.5	0.2	40.0
1950	Suriname	0.5	0.2	40.0
1950	French Guiana	0.5	0.2	40.0
1950	Guadeloupe	0.5	0.2	40.0
1950	Martinique	0.5	0.2	40.0
1950	Reunion	0.5	0.2	40.0
1950	Mayotte	0.5	0.2	40.0
1950	French Polynesia	0.5	0.2	40.0
1950	New Caledonia	0.5	0.2	40.0
1950	Wallis and Futuna	0.5	0.2	40.0
1950	Polynesia	0.5	0.2	40.0
1950	Samoa	0.5	0.2	40.0
1950	Tonga	0.5	0.2	40.0
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1950	Fiji	0.5	0.2	40.0
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1950	Malaysia	0.5	0.2	40.0
1950	Singapore	0.5	0.2	40.0
1950	Brunei	0.5	0.2	40.0
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¹ Degree of dependence is a measure of the ability to sustain the 12,000 ac-ft (1.45 km³) of water for only 120 ac-ft (1.5 km³) of water. Degree of dependence is only 0.001.



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1991	15	15.0
1992	20	20.0
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2000	60	60.0
2001	65	65.0
2002	70	70.0
2003	75	75.0
2004	80	80.0
2005	85	85.0
2006	90	90.0
2007	95	95.0
2008	100	100.0
2009	105	105.0
2010	110	110.0
2011	115	115.0
2012	120	120.0
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2086	490	490.0
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1. *Journal of the American Medical Association*, 2000; 283: 2686-2692.

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
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THE TOP 40 AMIGA GAMES CHART

The only chart that counts! Here it is... the definitive software games top 40 moves and shakers.

Best-Of-Game (Monopole)

How do you do again? For the love, mania in a new Amiga software classic can inspire the spirit of the top of the software pile.

Premium (Core Design)

Height in a business line. It Core Design's action-adventure game. Can it replace Grand Slalom? Not now.

It's Not Just (Monopole)

Remembered at the time of its release, it was a top-down platform game in which you get you better with platform.

Secret of Monkey Island (J & B Soft)

Platforming game. Lovable, sophisticated adventure. The sequel will bring on to carry.

Monopoly (New Grand Prix (Monopole))

Still in the top line after all these months. Graphically a super slick, more than the top of the line.

Crash Case II (Thorn)

Must not be as good as Lotus or Jaguar, but it's a white knuckle ride as far as you're in the car.

On the Edge (Lennings (Psychic))

They're back in the top 40. This is a game guaranteed to get you feeling your feet.

Games Express (Giant)

Hard to believe that this one is still in the top line. Realistic in any way, not really like it.

Crash's Excellent Adventure (Electronic)

Our second best game in a collection of the most famous adventures. Crash's new game has been the Games Express in the top line.

Chameleon (Microprose)

So many with a platform game in this, it's a game-building game. Can you be the first to win the game?

Pixel Your Gail (Electronic Arts)

One of the best platform games yet put into a little new platform game.

Strike (Pogo Software)

As good as it can be. Can you be the first to win the game? Can you be the first to win the game?

Love of the Temples (Virgin)

Virgin's first game in a series. It's a game in the same style as Monkey Island. It's in the top line.

The Manager (J & B Soft)

It's the same as the other. It's the same as the other. It's the same as the other. It's the same as the other.

Crash's Excellent Adventure (Electronic)

It's the same as the other. It's the same as the other. It's the same as the other. It's the same as the other.

Project X (Team 17)

The best game you can find. It's the same as the other. It's the same as the other. It's the same as the other.

The Amiga Family (Giant)

Platform game. It's the same as the other. It's the same as the other. It's the same as the other.

Jaguar (J & B Soft)

It's the same as the other. It's the same as the other. It's the same as the other. It's the same as the other.

Lotus (Giant)

It's the same as the other. It's the same as the other. It's the same as the other. It's the same as the other.

John Walker (Electronic Arts)

A strategy game. It's the same as the other. It's the same as the other. It's the same as the other.

Jimmy White's International Snooker (Virgin)

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Black (Giant)

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Lotus II (Giant)

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Crash's Excellent Adventure (Electronic)

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Project X (Team 17)

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John Walker (Team 17)

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Project X (Team 17)

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Crash's Excellent Adventure (Electronic Arts)

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Project X (Team 17)

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International Sports Challenge (Electronic Arts)

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Crash's Excellent Adventure (Electronic)

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BUDGET SOFTWARE

For this time of the year, there's a lot of budget software. It's the same as the other. It's the same as the other.

1. Lotus
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FRIENDS

No matter where you live,
you can always find
someone to chat to and
exchange ideas with
thanks to CIX, the
Computer Information
Exchange. Met
Broomfield rings the
changes.

BITING THE BULLET

Over the past few months, we've looked at ways that you can communicate with the rest of the world using your Amiga and a modem. Although bulletinboards are the most prolific type of public communications activity, conferencing services are also becoming popular. The Computer Information Exchange (CIX) is one of the most popular conferencing services in Britain, so our subscription is paid (figuratively speaking). I cracked up the busy modem and sat forth on an electronic salon.

SPEAK EASY

Unlike bulletin boards, which are designed with the exchange of one-to-one primary objectives, CIX is used for exchanging ideas. To share an ideology, imagine walking into a hall containing 80-100 people with up to six hundreds of small groups, each discussing a particular topic. You can wander from group to group, overhearing all people's conversations, perhaps even adding your own comments. That is a mutual decision what CIX is all about.

When a user logs into CIX, he can join one of hundreds of Conferences. A conference is an area where people who are interested in a particular subject can go to speak to other like-minded people. For example, CIX contains an Amiga conference where anyone interested in the Amiga can speak to other Amiga users.

However, it doesn't stop there; an individual conference can further sub-divide into Topics. A topic is a greater subject for discussion within a conference. The Amiga conference contains topics on programming, CDTV, software, games, graphics and several other subjects.

KING FOR A DAY

Each conference has at least one "Moderator". The moderator is the person who takes responsibility for maintaining order within a conference, and he/she is usually the person who set it up in the first place. A moderator may also have to take responsibility for maintaining activities within a conference, including if it doesn't fit in with the way they have to log on daily to make announcements or keeping comments which will engender debate among members of the conference.

The majority of conferences available on CIX are "Open", that is, any anyone can join them at any time. However, there are also a number of "Closed" conferences which are usually set up by companies as a place for a selected person to talk about without fear of possibly sensitive information being divulged to the general public. Many companies use closed conferences as a convenient place for developers and product sales to communicate with each other. If you want to, you can set a conference moderator for access to a closed conference, and if he gives you permission, you

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CLUB CALL

For airing ideas, posing problems and sharing solutions an Amiga club can help you get to grips with your favourite computer. If you haven't joined one yet read on and learn more.

AMIGA 500+ CLUB

3 Lacey Court, Irvine, Ayrshire KA7 1AQ.

Clearly distinguished by providing its members with access to the best of hardware and software they might not otherwise be able to use, the Amiga 500+ Club has recently published a welcome letter (greater in compliance to various other clubs). The range of facilities now available includes assistance in getting both video IV and HAM that fit in with C17 programs and the conversion of video, newspaper photographs, notes and line files. These services are free to members, who only have to pay for a disk and postage. Completely free off the printing is a step to be provided following the purchase of an H.P. 800 laser printer. The club plans to set up a bulletin board in the near future.

AMIGA USER'S GROUP (FYLDE)

76 Glen (Lynn Road), 1 Lytham St Anne's, Lancashire FY8 2AG.

Here is a Lancashire club which currently features its listings in touch with its membership. Firstly it supplies free disk & floppy in disk magazine containing reviews for hardware, hardware and software reviews, programming, PC programs, listings of national and local fairs and news about forthcoming meetings and Amiga related events. Secondly it provides a telephone advice line offering to solve equipment and software problems and help with purchasing decisions.

Membership including a subscription to the Newsletter, is available for £15 a year (£8.50 for an infant), which gives members covering the costs of this hot desk mailing club. Members will receive a disk after access to the Mac/PC Support Room based in Preston. For an extra £7.50 a year club a membership application form and further details contact Andy Wilkinson at the above address.

AMOS PROGRAMMERS CLUB

8 Brixway Avenue, Borehamston, Thurst, Kent CT8 1DE.

A recently-constituted club which, as its name suggests, hopes to assist those learning the AMOS programming language and provide a forum to which AMOS users may seek advice. The club organises workshops a disc magazine for members that includes examples programs, tutorials and, last but not least, AMOS 4 future plans include the availability of a free PC network to allow them to exchange programs. Details from the above address.

COMMODORE AMIGA USERS GROUP

44 Highgate Road, Wilmslow, Essex CM9 1LR.

Although the club is dedicated to those first getting it started just over a year ago when a group of friends gathered to run computers on Amiga C17 and Super Car River. Hundreds of these are currently being converted by the club and put on disk making use the best of otherwise isolated users. Members are eager to get hold of. The 30 members also share PC programs and magazines, and an on-line network is going to be published soon (Somerset don't 1988, but I will change CU).

GLASGOW SPORTS LEAGUE

24 Thompson Hill, Clackston, Glasgow G78 3AP.

Not yet signed during the Glasgow Sports League (a professional name) hopes to become a fully fledged football league for members of Glasgow City. Amiga League team contacts will be a team member on computer ready to take notes. The league will have a profit from training but will charge membership fees to fund for prizes and prizes. The fees are set at £10 per season for seniors (over 16s) and £5 for juniors and £12.50 for family membership (one senior and one junior). Membership opens only to the Glasgow League, the Glasgow City and a Club of the Glasgow contact. Members will also receive a monthly newsletter.

If you are keen to a period about your on-screen sports fixtures, but are over the moon about 'Senior', 'Junior' and would like more information on the League, send a large stamped self-addressed envelope to the above address. Together new One Senior/ Junior. There is only one One Senior/ Junior.

THE GURU MASTERS

111 Marlborough Road, Barking, Waterburyham W15 8SU.

An unusually informal club which is actually a demo group producing cdds and demo compilations designed to showcase sampled songs and demos. They are currently working with some songs by a group called Purple Mouse, which is owned by one very funny. In contrast for two years, and with a membership of twenty. The Guru Masters are working towards a meeting of members and would particularly welcome new members with knowledge of the field, and if needed, a printed brochure should be directed to 'The Guru' at the above address.

THE KENT YOUTH COMPUTER GROUP

The North Heath Centre, Gosport Road, Ashford, Kent.

In September this club started its meeting with a purpose-built computer room at the above address. Meetings take place on Tuesdays and Thursdays between 4.0pm and 6.0pm, with a 50p entry fee (50p to visiting youth club members). Other computers are loaned to members on request.

NORWICH MALKED HEROES

278 Anglem Road, Norwich, Norfolk NR2 2ED.

Is it 100%? Is it a game? No. It is an East Anglian Amiga club. Meeting to help each Amiga user overcome their computing problems. The Norwich Malked Heroes Club is a membership group of up to 100 in 10. An event magazine is available to members who supply a disk for it to be added into. Contributions to the magazine are invited, so if you have any ideas, or just want to join the club yourself, write to the above address for further details.

THE PERTH AND DISTRICT AMATEUR COMPUTER SOCIETY

14 North Place, Arbroath, Perth PH1 2BA.

Covering the Perth (Anglian) area rather than the Perth (Anglian) region, this club meets every month and supports all types of Amiga and other varieties of computer. Talks are given on all ranges of subjects interesting to Amiga users, such as the use and care of having a C17, software, disk programming and info on the best hardware to purchase. Demonstrations are performed, advice is available for those having problems with their computers, and members may join the Society's PG group. A system board is also being established. Membership costs £5 per annum and further details of the club may be obtained by sending an S.A.S. to the above address.

SAINT-LO 16.32 MICRO

122 Rue Jean-Paul, St 600 Saint-Louis, France.

The club meets on a monthly basis and publishes a newsletter titled 'The Fun Micro Club'. In spite of its name it is a serious entity in French. If you require info on it or to join, please write to the above address.

GET IN TOUCH!

If you run a club specifically aimed at the Amiga owner, get in touch. We'll promote your club through these pages, as well as provide a free subscription to CU Amiga. Send all entries to: Don Singely, Amiga Club, CU Amiga, 30-32 Farringdon Lane, Farringdon, London, EC1R 3AU.



CU's resident knight in shining armour rides forth on his white steed (well, beige at least!) to put an end to your Amiga problems

POINT AMPLIFIER



I think that to command your GDT article in your September

"GDT" I think that they are a good idea as hardware costs so much. I was particularly interested in the Audio Amplifier as with that in a catalogue in hand I worked out the cost of the components needed. It only came to £7 very cheap compared to other sound systems.

I was just about to place an order for the parts listed when I noticed that there was a pin on the inter-computer link in the illustration, but the text stated that a 15-pin connector was needed. As far as I know, they have three pins (like the one in the photograph in the article), and not so. Is what happens to the other three wires?

Steven (Superior Feature Work) Essex

You are right, the illustration does show a six pin pin as opposed to the three pin version shown in the photograph. The reason for this is that four pins into pins are for easier to get into it than the single version featured in the parts list. If you use a dual version the other three pins should be left unconnected as they aren't required.

STICK BOX HELP



I starting in response to the Stick Box letter that was last

month. My July note saying that an address label on the project was not what my capabilities and I duly ascertained. However there are some other problems for Amiga users not intimately associated with chips and it is coming from the board. I suspect has got more in it to join the board, between one a bit and the other. The one that the board is looking at is the fact that the first design they will work a 16-bit chip. Users are not satisfied to the fact that the board. My is under the cost of the type of the IC holders as there are about four boxes which may be used only on completion of the job.

2 The legend on top of the PCB relating to the two LEDs is a bit to hard to read. I'd like to see a clear statement on the fact that the LED should be connected to the integrated circuit.

3 The manufacturing quality of the board I received was quite low and I found that a number of the tracks were broken. These can easily be replaced by having a station of several copper wire across the offending track.

4 The box may not work

with the Amiga 500. This point has been made clear by the fact that a 16-bit interconnect to ground. Amiga use this pin to connect to the ground within the Amiga chip. As a voltage will be present which will affect the grounding of the board.

5 If I judge all connections to be made at the board with the exception of the test plug - it is impossible. None of the leads from one place to another to check the continuity, thus connecting broken tracks and joints. It is C.J. Terry (Continued from page 10)

Thank you for your time. It appears to be a bit of a pity that the board is not working. I am not understanding a number of different problems.

POINT PROBLEM



I want to know how to buy the parts to make a point

in your September issue but I couldn't find them anywhere. Can you let me know where to get them from please?

Steven (Superior Feature Work) Essex

It is looking like the Amiga's capabilities, and from I have you can order any component component you could possibly require. Additionally you can contact them directly at Magna Electronics Supplies Ltd, 188 Lonsdale Road, Walsingham, Norfolk, Great Britain, Great Britain, Great Britain.

A530 MUSINGS



Having recently taken an interest in Amiga hardware, I was

very happy to see your article on the A530.

1 Will the GWP A530 Turbo hard drive be A530 compatible?

2 Is it possible to upgrade to eight megabytes of Chip RAM on either a 1.3 or 2.0 Amiga with the A530 board?

3 Am GWP wanting to come back to the A530 (given that the A530 is a mini-PC)?

4 As for the A530/P50

concerning the A530/P50, I am not sure if it is a better idea than the A530/P50. I am not sure if it is a better idea than the A530/P50.

1 I have a question as to whether the A530/P50 is a better idea than the A530/P50.

2 I am interested in the A530/P50 as a replacement for the A530/P50. I am not sure if it is a better idea than the A530/P50.

3 I have in mind the following: an A530/P50 with 8 megabytes of 32 bit wide Chip RAM, eight megabytes of 32 bit wide Fast RAM, 100 Mbit hard drive and a 100 Mbit processor. Is such an arrangement possible on an A530/P50?

4 What, when, where, how, etc.

5 I am not sure if it is a better idea than the A530/P50.

6 I am not sure if it is a better idea than the A530/P50.

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23 I am not sure if it is a better idea than the A530/P50.

UPGRADE UNCERTAINTY



I have an Amiga 500 and I am thinking of buying a hard drive. The

only thing I want to see is the Amiga 500 and I am thinking of buying a hard drive. The only thing I want to see is the Amiga 500 and I am thinking of buying a hard drive.

I have the Amiga 500 for games and word processing, although in the past the Amiga 500 has been used for programming. Reaching these limits in mind, about 100 Mbit to buy a hard drive, an Amiga 500, a hard drive, or should I wait and see what the new Amiga are going to be like?

Instantly I have designed a replacement component. What is the best way of getting a hard drive and a hard drive? I am not sure if it is a better idea than the A530/P50.

There are a lot of very impressive hard drives available for the A530, and unless you require the expansion facilities of a machine such as the 1000, 2000 or 3000 there is no point in spending additional money on one of them.

If you think that you are likely to require expansion slots for peripherals such as PC Emulators, GDTs, etc. then it would be wise to choose a machine based on 1000.

With the imminent release of the A530, prices for the 2000 range of Amiga have plummeted to less than 50% of their previous levels.

Consequently, the only new Amiga to be released in this country by the new year must be the Amiga 5000 - a high-end, high-end machine which is almost certainly going to be within your price range in any case.

As for getting PC emulation for your program, the easiest way is simply to connect a hard drive to any PC. Computers that take your Amiga. The 1000 and Fast RAM libraries are among the largest in the world, and will probably provide you with the widest possible emulation.

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PRINTERS SPECIAL

I receive far more letters concerning printers than on any other subject. To be honest, at least 50% of these questions could be answered if people would simply read through the manual that comes with their printer, or refer to the relevant sections in the *Workbench* manuals. However, I appreciate that printer manuals can be hard to understand, especially for beginners, so this month I'll be answering as many printer-related questions as I can get through.

WHICH PRINTER?

I'm thinking of purchasing a printer. My price range is \$500 to \$800. Could you please recommend a few models? Colour would be nice, if possible.
Steve Jensen, Berkeley, Illinois

I use a Canon BJ-10c and buying it was the best move I ever made. It uses sublimated technology to give monochrome (black, white and grey) print at a resolution of 280 DPI (dots per inch). It's great with graphics, GIF and ordinary text, although at 30 DPI (Characters Per

Character) is less quite a low print speed. The Canon BJ-10c is slightly better because the Epson computers and is supplied with more fonts and features. The Star BJ-40 is also based on the Canon BJ-10c engine, so quality is pretty much the same. Choose whichever one is the cheapest.

As for monochrome dot matrix printers, the Star LJ-100 and the Citizen Swift 24 both have similar specs and provide reasonable output, although not at the same frequency as the sublimated. The Citizen is easier to get

started, and is more user-friendly, but the Star has some really nice fonts built in. You can also buy dot cartridges for the Swift at about £30 each. Both printers are much faster and smaller than the average jet, and are considerably cheaper to run.

For colour, the Star LJ-2000 and the Citizen Swift 24 Colour are again comparable. They're OK for spot colour and printing graphics for home and amateur use, but their default colour mixing is not too convincing and print-outs are often quite blurry (they have bands of light or dark running across them). Citizen use provide a special Amiga driver and printing software which vastly improves its performance, giving it the slight edge over Star's offering. However, to get this ultimate performance from any colour dot matrix printer you should really consider specialised graphics printing software such as *PaintShop*. In my opinion, this software is so essential that it should be bundled with every colour printer sold in an Amiga store.

When you look at more budget jet printers, apart from the HP Deskjet, you're looking at what you may find. The Deskjet prints at 300 DPI and it is a fine for home and semi-professional use. The colour mixing is far better than the dot matrix choice, but like all colour sublimated jet printers, it's quite expensive to run. The HP Deskjet will cost about £1000, and the results, at only 150 DPI, do not justify the price tag. It is far better to do colour experiments on a monochrome bubble jet and get before the results in. Of course, the Canon BJ-40 also gives much better results for just under £200, and for a good £200 you can get 64-bit photographic quality prints from the HP LJ-500.

If you can go to computer centres, you can sometimes pick up laser printers for £200-£300 less, and although these give excellent results, the ink cartridges can be extremely expensive.

2-DARTY PRINTER

I'm making a range of charts in my 7000 for printing on 11 sheets. Can you tell me which printer to buy in order to do this?
Jeff Chan, Bedford

You need special ink for printing on 11 sheets and at the moment this ink is only available on releases from Data Electronics (who also sell *PaintShop*). I believe these releases are only available for the Star and Citizen range of printers, but please Canon or HP's 800-833-8333 for confirmation or further details.

NEEDLESS HESITATION

Can Electronics sell a colour upgrade for the most printers. Cost £1,000 more or four separate Citizen or HPjet which need swapping every time the printer makes a pass? If this is the case, then it's a bit impractical for printing anything other than a postage stamp!

Harriet Clough, Tisbury, Dorset
Nigel White

Yes, it does seem that *PaintShop* which adds its bit to the HPjet's features. However, you seem to have misunderstood the meaning of the expansion packs. A pass does not mean printing one single line of colour then changing the tone, either it refers to the way that *PaintShop* will print an entire screen using one coloured ink before you must change the ribbon and repeat the process for each of the colours that are required to build up an image. Of course, you're right, the process does take much longer than if you were to use a colour printer in the first place, but with *PaintShop*, those printer owners don't have to pay hundreds of pounds for a colour printer merely as they can print the occasional letter.

Of course, you're right, the process does take much longer than if you were to use a colour printer in the first place, but with *PaintShop*, those printer owners don't have to pay hundreds of pounds for a colour printer merely as they can print the occasional letter.

A500+ LASER PRINTER

I have quite a number to spare and I was thinking of purchasing a laser printer. I started to look through some magazines to find a printer. But aside from my Amiga, I couldn't find

any I saw a reasonably priced printer for both graphics and wordprocessing. Do you have any ideas for me which printer I should get and what OS I need? Finally, can you recommend companies to buy from?
R. Jones, West Bromwich, West Midlands

In general, printers are not designed to work with any specific computers, therefore any printer that uses the serial or parallel port (25 or 36 pin D) will work to some degree with your Amiga. Most laser printers have advanced features as found on dot matrix printers, some of which you may not be able to access from your Amiga. For example, some printers use a page description language called PDL, which others use. *PaintShop* which can only be used with certain Amiga programs.

You will still be able to use the basic features such as text and graphics printing, and styling, etc. you just won't be using the printer as its maximum potential.

To use any printer with the Amiga, you will need an appropriate driver. Check your printer dist or Amiga manual to see which ones are available in you, then try to find a printer which can emulate one of these. You should be able to find a decent laser printer for £500 to £600.

Many Systems as well a range of laser printers. For advice or further information ring them on 081 808 1111.

WORDSWORTH PRINTER FONTS

A number of teachers have written to asking about how to use their printer's built in Digite a page outlining package *WordShop*. The main manual supplied with the program is surprisingly silent about this feature although previous users should have received a booklet (that) (update) letter to *PaintShop* that it is which explains the subject in the opening of the 1-1 version should have received these instructions when they bought the program. To clarify the situation

WORDS WORTH

I would guess that I am alone in finding the paragraph games' good. But while they can be a really handy tool, they are not the best way of expressing how good a game is. It would, however, appear that the system will change to good and excellent which is my mind is a great double-edge sword. The difference between good and excellent would be the same as the difference between 80% and 90%. There are also people who would like to make up their own minds without having the reviewer's hat on.

I suggest that it would be a good idea to have two more separate pages included in the magazine. One would contain the reviewers' percentage scores and the other the good reviewer comments. This would surely make any game more and make it easier to compare games. *John Whitcomb, Bradford on Tens, Somerset*

I think your gaming system, Jan, would amount to a rather unexciting 100-point run. Discounting the overpriced board games, your system would make them irrelevant to anyone who reads it. I just read the reviews to discover what type of game (board, sit up, strategy, etc.) was being played. However, nothing to put the reviewer's words into context.

Mark Lee and R.D. Barrow seem to think that the overall percentage mark provides readers from having their own minds about the quality of a game. I thought the whole point of a games review was to show clearly what the reviewer thought of a game. Why does Ray compare a review of a computer game to a review of a television set? The review indicates how the game performed for the reviewer, for or against. As readers can before or otherwise the price explains depending on their view of the book review, comparisons made with games with which they are familiar, and so on. The overall impression left by a game is surely the single most important element of a review. If you are left thinking that the reviewer thought a game was 80%, I feel I need not say 80%. (Excellent!) graphics and you stay after when it is time to describe it. In the period to earth having?

PAY UP, PAY UP, AND PLAY THE GAME

I am a sucker of 30 intelligent, old cash, and really addicted to my Amiga computer games. I buy them and magazines, spending more on that than anything else. I am not well off. I live alone with a huge mortgage and ordinary income.

I do not keep a log of a penny, the cost of my main interest and while because having read and understood on all the reviews, articles and statements relating to high game cost and price, I really do agree with what you say as to the majority of games, who state that high-priced leads to better and games should be cheaper.

They I am sure that it is a good fact even for games to be multi-chapter but for the most part, something for nothing and certainly would not expect experts to write cheap or to write from a magazine's profits. I am sure some people in the computer game industry are really as a result of their successful work, but they assume it. Surely it is all a case of what your priorities are? I prefer to spend the and can afford to do it. Don't have a car, mortgage, school, wages, expensive clothes, etc. These who choose to play games also choose how they spend their money, and if they are willing, it is only reasonable the manufacturers they should be helped.

At the moment, set up thirty more than ten computer games, all to value. If I buy a game for £20 and enjoy it for 200 hours, I consider it a decent value and instead of complaining I am grateful. I can still enjoy it and know that it is his own. I think it is better to pay for what you like to play for than to pay for what you have. I wonder if the people who complain could sell any games at two pence if they received a percentage of the income.

Gordon Braker, Woking, Surrey

You make a good point, Carven, in saying that complaining people that computer games are by no means exclusively children's and even I think it is fair to say that some of these computer games are of adult age. What they may accept the argument that a game is good value for the money when the hours of enjoyment it provides are taken into mind. Reading Lilliput would be a lump sum with which to buy a reasonably-priced game may be quite a challenge for many of them.

On the other hand, you stay the right in considering computer prices as being largely unrelated to the price of software. Most buying of music, the collecting of figurines, TV programmes, etc. and that photographing useful systems from expensive books of art to be considered by large numbers (perhaps a majority) of people. Copyright infringement is all in these days and without sufficient compensation for it is to be discouraged. Under these circumstances it is not surprising that people take advantage of the ease with which games can be copied. Perhaps we all should follow the lead of the music industry and lobby for a law to be enacted on blank disks. What do you think?

NO, DON'T LAUGH

There is a lot of people who think that the Amiga is a very good computer. I have a 286 and I have a 386. I have a 486. I have a 586. I have a 686. I have a 786. I have a 886. I have a 986. I have a 1086. I have a 1186. I have a 1286. I have a 1386. I have a 1486. I have a 1586. I have a 1686. I have a 1786. I have a 1886. I have a 1986. I have a 2086. I have a 2186. I have a 2286. I have a 2386. I have a 2486. I have a 2586. I have a 2686. I have a 2786. I have a 2886. I have a 2986. I have a 3086. I have a 3186. I have a 3286. I have a 3386. I have a 3486. I have a 3586. I have a 3686. I have a 3786. I have a 3886. I have a 3986. I have a 4086. I have a 4186. I have a 4286. I have a 4386. I have a 4486. I have a 4586. I have a 4686. I have a 4786. I have a 4886. I have a 4986. I have a 5086. I have a 5186. I have a 5286. I have a 5386. I have a 5486. I have a 5586. I have a 5686. I have a 5786. I have a 5886. I have a 5986. I have a 6086. I have a 6186. I have a 6286. I have a 6386. 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2000	Model 2	100	100	100	100
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2003	Model 5	100	100	100	100
2004	Model 6	100	100	100	100
2005	Model 7	100	100	100	100
2006	Model 8	100	100	100	100
2007	Model 9	100	100	100	100
2008	Model 10	100	100	100	100
2009	Model 11	100	100	100	100
2010	Model 12	100	100	100	100
2011	Model 13	100	100	100	100
2012	Model 14	100	100	100	100
2013	Model 15	100	100	100	100
2014	Model 16	100	100	100	100
2015	Model 17	100	100	100	100
2016	Model 18	100	100	100	100
2017	Model 19	100	100	100	100
2018	Model 20	100	100	100	100
2019	Model 21	100	100	100	100
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2023	Model 25	100	100	100	100
2024	Model 26	100	100	100	100
2025	Model 27	100	100	100	100
2026	Model 28	100	100	100	100
2027	Model 29	100	100	100	100
2028	Model 30	100	100	100	100
2029	Model 31	100	100	100	100
2030	Model 32	100	100	100	100
2031	Model 33	100	100	100	100
2032	Model 34	100	100	100	100
2033	Model 35	100	100	100	100
2034	Model 36	100	100	100	100
2035	Model 37	100	100	100	100
2036	Model 38	100	100	100	100
2037	Model 39	100	100	100	100
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2040	Model 42	100	100	100	100
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2042	Model 44	100	100	100	100
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2051	Model 53	100	100	100	100
2052	Model 54	100	100	100	100
2053	Model 55	100	100	100	100
2054	Model 56	100	100	100	100
2055	Model 57	100	100	100	100
2056	Model 58	100	100	100	100
2057	Model 59	100	100	100	100
2058	Model 60	100	100	100	100
2059	Model 61	100	100	100	100
2060	Model 62	100	100	100	100
2061	Model 63	100	100	100	100
2062	Model 64	100	100	100	100

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SOUND
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OCTAMED

In the final instalment of his extensive Octamed tutorial Mat Broomfield looks at sampling and sample editing.



Octamed's waveform editor is capable of zooming in on your waveform from 1000:1 down to 1:1, allowing you to see every sample. The exponential zoom slider also allows you to create some very interesting time-compression effects, but it's not available in many commercial software packages.

SIMPLE SAMPLING

Although most samplers are supplied with their own editing and recording software, nothing is more frustrating than being right in the middle of a song and finding that you have to record again using additional software. Just to record a one-second sample. Luckily, you don't have to go to all that bother because Octamed includes a recording and editing session of its own, which you can see by clicking SAMPLER in the options palette.

To record a sample, you'll need to turn a table pin that plugs into the (analog port) and, of course, it should be plugged in BEFORE you switch your computer on.

SETTING UP

Just a jump straight in and record a sample. Switch an audio source (such as a sampler, amplifier, CD player or MP3) for example, so that there is music playing into the sampler. Then click the MONITOR option in the Sample Editing Options. Assuming you have your sampler connected properly, you should hear sound coming out of your speakers or TV monitor and the Waveform window (the large black box above the Sample Editing Options) should display a constantly changing waveform.

If this doesn't happen, check that your hardware is correctly installed, and that there is a signal coming from your source, e.g. CD player. If



you still don't see any waveforms, the MONITOR option in the sampler may be incompatible with Octamed. Assuming changing the hardware setup is unsuccessful, with its own software (but is often a tedious, time-consuming job), functioning of a system, or simply cannot be able to record samples with Octamed, although you can still edit them.

Assuming your sampler does produce a sound when you click the MONITOR option, look at the waveform that appears in the waveform window. We're going to adjust the zoomer so that when you come to record a sample, it will be clear with no distortion or being obscured by the volume being too high or too low.

The waveform appears as a wiggly, changing



white pattern of vertical zig-zags in the waveform window. As you listen to the sound being played through your sampler, you should notice that loud parts of the music produce tall peaks and low troughs, which go down towards the zero. When your sound reaches a very quiet, uninteresting point, the volume will level at the peak of the white zig-zags and stay there for a bit or a bit of the track. A volume window at the top of the SAMPLER window shows the volume level. If you notice the volume rising or falling, or if you notice the waveform level rising or falling, it's a good idea to adjust the volume, but until the waveform has just about all the top and bottom borders of the window. This can be done by decreasing the volume or level too far, or your sample will be unnecessarily quiet.

Your objective is to adjust the level so that the loudest parts of the music generate a waveform volume enough that it only just sits at the border. This will produce a sample with maximum volume and clarity. When you are happy with the loud level of your sound, click MONITOR again to switch monitor off.



The volume window at the top of the SAMPLER window shows the volume level. If you notice the volume rising or falling, it's a good idea to adjust the volume, but until the waveform has just about all the top and bottom borders of the window.

RECORDING A SAMPLE

Before you can record a sample, you'll need to set Octamed how much memory is available to it. You can do this by clicking a button in the SAMPLER window at the bottom right of the

OCTAMED

saving Options. The maximum memory that you can allocate to a single sample is 139000 bytes (330K). Although the map works anywhere near the maximum RAM capacity of your Ataris, the Octamed sampler is not designed for sampling entire songs or albums; it's designed so that the user can sample and edit individual instruments or loops for use within a song.



For now, type in 50000 and press Return. We've now set up a 50K buffer to record a sample into. Click the RECORD button and you should hear your music as it's playing; you should see the waveform monitor appear as it does when we were monitoring the sound earlier. When you decide to end it, press the STOP button to record. Click the left channel button and Octamed will start sampling. The screen will be blanked out while this is taking place, but don't worry. After about five or six seconds, the screen display will return and your sample will be waiting in the waveform window ready for you to move or edit as you require.



To test that your sample has been recorded properly, click PLAY DISPLAY and you should hear it being played.

SAVING THE SAMPLE

At the moment, our sample has no name, and it doesn't occupy one of Octamed's instrument positions. This means that you will be unable to hear the results of certain changes that you may wish to make to it (pitching, for example). To remedy this, we must name the sample, then load it back into one of the instrument positions, so we have on to do that now.

The sample can be saved in two forms. Raw (or raw in package) such as Protracker and other Soundtracker clones, or RIFF for most other programs. At the bottom of the sample editing window there is a small button labeled SAVE RIFF. If you want your sample to be saved in RIFF format, this button should be highlighted.

Now go to the options panel at the top of the screen and click FILED to open the file requester.

Using the various list, or by typing a path name directly into the FILE requester, specify where you want to store the sample. Now enter the name you want to give it in the FILE requester. Then click SAVE/ENTER to save the sample.

Once the sample has been saved to disk or RAM, it can be loaded into an instrument position. Because we've only just saved it, the instrument details will still be in the appropriate requester so click LOAD INSTR and the sample will be loaded into instrument position 01, and you should see its name appear in the Major Status bar.

If you now press any of the Note keys (most of the letters and numbers) on your Ataris keyboard, you should hear the sample being played back. Obviously the pitch and speed at which it's played depends on the key that you press. Provided you haven't pressed any of the function keys (so that it's between 1 and 0 and not selected), pressing the letter 'B' will replay the sample at its original pitch.

MIXMASTER

Returning to the sample editor, let's explore some more of its features. We start by mixing two samples together. Your original sample should be visible in the waveform window. Click SOCCUFFY to copy the sample into the Copy Buffer. Now we have two copies of the sample: one on the screen, and another in the Copy Buffer (which we can recall if we need to).

Look at the left of the Sample Editing options and you'll see two related options: MIXSTENT and PHASING. These are used for defining a range within the sample. A range is a highlighted area upon which you can perform special operations without affecting the rest of the sample.



At the moment both range requesters contain the number 0, so let's change this now. Click in the black box beside the PHASING requester and enter the number 50000, then press Return. We've just defined the end of the range, and therefore the start point (MIXSTENT) is 0. A range is defined from 0 to PHASING bytes. If you could, we specified a sample file size of 50000 bytes earlier, so as you've probably already realized that the range covers half of the entire sample. The highlighted range is shown in brown colour in the Waveform window. If you click PLAY/MANAGE, you'll notice that Octamed merely plays the highlighted portion of the sample.



Click OK, at the bottom of the Sample Editing Options, to return the highlighted range. Now click MIX to mix the contents of the Copy Buffer with the sample on the screen, then click PLAY DISPLAY to hear what you've created. In all probability it sounds pretty awful, but the principle should be clear enough.



A side effect of mixing two samples is that the overall volume of the sample is decreased. The easy answer to this is to use the BOOST button to 'pump up' the volume to its maximum level. To do this click on the MANAGE/L button. Then on the BOOST button. After a while, you'll see the overall height of the waveform increase until the highest peaks are just touching the borders of the waveform window.

ECHO, ECHO, ECHO

Enabling echo adds a great deal of depth to a sample, and that's exactly what we're going to do now. We'll start by recalling our original sample, so click the button labeled CALL RIFF. When you click the button, the original sample should replace the existing one in the editing window. As you might like to play it just to confirm that this has happened.

Because we are going to add an echo to the entire sample, we'll need a lot of extra room space at the end of it for the echo to go into. At the moment the BUFFSIZE would read 50000, which is what we can use when we recorded the sample. Change the number to 54880 and press Return. As you do so, a message appears at the top of the screen saying Press C to clear sample. If you enter it as C to confirm. Clearly, we want to retain the sample so press R and you should see a lot of black space appear at the end of the sample.



Look at the bottom of the Sample Editing Options next to the ECHO option. There are three requesters labeled RATE, ECHO and R. The first one simply gives us the change the RATE. This represents the distance in bytes from the original sound to its echo. As we extended the sample by 1088 bytes, enter the number 1000 in the RATE requester (its default is 400) then click the ECHO button. The word Echoing... will appear at the top of the screen followed by the number 2, which increases to 1 before the echo is completed. This number relates to the number of echoes that are

position of a sample and is equivalent to the sum of values to its right.



Play the sample to hear the difference the sample makes. Quite impressive, isn't it? One thousand cycles represents quite a small sample, so had you sampled the effect for less, more pronounced, you would have taken more space at the end of the sample, and hoped an appropriately large number in the (A7) register. As a matter of interest, only two extra cycles (1-400) can be used to create a sort of Deneb-electronic effect.

CHANGING VOLUME

Although you can change the volume of a sample in Commodore's Track Editor, this is a time-consuming process in the volume changes that can be saved in the Sample Editor. To see what it means, record your original sample, either from disc or from the Copy Memory and select it all using the (RANGE) button. Inside the CHG VOL button, there are two registers both of which contain the number (0) at the moment. These represent the start and end volume of the sample, expressed as a percentage. Therefore if you loaded the (CHG) into volume right now the entire sample's volume would be 100% (increased) to 200%, or it faded away. We're going to use this feature to perform a fade-out on our sample, so change the first number to 100 and the second one to 1. Now click CHG VOL.

You'll see that the average height of the wave (represented by a dot) is nothing, meaning from left to right across the sample. What you just formed a quiet and easy fade-out. Of course, it's just as easy to perform a fade-in by just using the numbers 1 and 100 over in the volume registers.

LOOP-DE-LOOP

Let's finish by looking at one of the most powerful and useful features of the Sample Editor - looping.

Repeat your original sample and click the LOOP ON button. Two things should appear on the screen: one of the Waveform window. These are the loop markers and they're used to specify the start and end points of any loops you want to set up.

When a loop is defined, and the sample is played, it will play normally until the second loop marker is encountered. At this point Defined will jump back to the first loop marker and start playing from that position. From that on, the loop part of the sample will be continuously played until you decide to stop it.

Looking at the Sample Editor where you'll see that the letter L next to the LOOP ON option is currently highlighted. This means that the Start Loop Marker is currently active, and any loop interval wants that you make will affect this marker. If you want to ignore the (End Marker) select the letter E instead.

The markers can be moved in one of two ways. By moving the cursor into the Waveform window and pressing the left mouse button. The selected marker will immediately jump to current cursor

position. If you keep the left button pressed down and move the mouse left or right, you can drag the marker along the waveform. Inside the letters L and E, there are two sets of numbers. The first ones are used to move the markers by two bytes at a time for moving into fine increments. Inside the waveform, a highly magnified, you're unlikely to see the total markers, which you can use these (A7) registers. The other set is given with the (CHG) button, a single increment marker to push it in



the sample that have a value of 1. This is useful when trying to create a point.

Using the start and end markers, by defining a loop somewhere in the middle of your sample, you won't hear the effect of the loop by clicking PLAY/REPLAY or PLAY/STOP; you have to play the sample by pressing one of the computer keys.



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OBTAINED HISTORY

Obtained has a long development history stretching back to 1988, when Tails Classroom, the program's author, decided to write his own Soundtracker program. At the time he was using the 200 Soundtracker IV, and although he found it easy enough to use, he was dissatisfied by its inability to operate under Kickstart 1.3 as multi-task Tails created version 1.4 and called it MOD, an acronym for Music Editor. In his own words it was not released. It's been quite a while. When he released version 1.4 into the public domain, it was placed in the Apple Link Library. After beginning a wait it while that of criticism for the program.

Tails started his slowly development of the program, and it gradually added and changed with modifications. However, despite the fact that some people were waiting in their shelves, it still didn't see much people were. AmigaSoft limited, a UK PC company, signed a non-exclusive agreement with Tails which ensured that he retained some rights to the program for all his hard work. From version 1.5 onwards, most had to pay for the program, which they could use. AmigaSoft, however, was of a different mind about from the PC company about taking the program out of the public domain. This alone was enough to ensure that they were forced to change their plans, and bring the program to AmigaSoft. These same AmigaSoft companies are now distributing their own programs.

By the time Tails had reached version 3.04, he produced a major re-write which supported up to eight internal samples simultaneously. This gave rise to a distributed eight 1992 version called Obtained. Also, at this time AmigaSoft published a specially commissioned manual for Obtained, thus making the program even easier to use.

As soon as I heard that Tails was working on Obtained Professional, we decided to do everything we could to get the program as fast as you can see what all the time was spent. After successfully negotiating that magazine, I personally brought you the program on the July edition. This version represents many improvements, and brings the program into the reach of professional users with the addition of numerous MIDI features. We have that version 4.00 is now underway, and it seems as if it's bringing you details as soon as they're announced.

**SOUND
CHECK**

do-it-yourself

CARLOS GRACIA



Take up your DJ duties earlier with a little white glue mix - but watch those fingers, too.

your mix directly to the sampler is that you get a first-generation recording. According to tape, then sampling from that, introduces another stage (a big white glue mix) which you doubt will inevitably become slightly degraded by background hiss noise.

On the other hand, you can't really take your Amiga into a hotel to sample the birds singing. In the case, you might find a portable tape recorder just a bit more convenient. Another advantage of putting sounds onto tape first is that you can sample one off sounds, even when you have little or no control, such as your dog barking, a plane flying overhead and so on. Once you've got something down on tape, you can mess around with it on your sampler for as many hours as you like. By the way, if you're using a handheld mixer, you'll need to double it against your sampler (as a makeshift control unit). This is easily done if your mix has an output marked MIX. Connect your sampler to the mix's two-phono socket, and voila you go.

Tired of using other people's samples? Tony Morgan shows how to inject some individuality into your soundtracks.

ORIGINAL SAMPLES

I'm sure when the great inventor Sir Alexander G. Sampson created his remarkable (he must have had all kinds of different ideas for his use, I shouldn't think he envisaged it being used by the world) and his wife for the same old-James Brown samples time and again. His wife was sick you supposed to sample if you've had enough of using other people's sounds? How about some of your own?

(Speak, normal folk... original samples? Rarely a consideration in itself. First, with a microphone in one hand, and a mixer in the other, the ready-made original samples is right under your nose for one your sampler, or wherever you happen to point the thing.)

THE KIT

Let's begin with a sampler of the expensive kind - where you insert a microphone, or a tape recorder with built-in microphone, handy going to record the action if you don't want any mix to do. Your test set is to get down to Tasty and pick up one of the whistles you can find. As for the tape recorder, your home hi-fi may well have a built-in mixer. In which case there's no need for any extra of it.

LIVE OR RECORDED?

If you decide to use a separate microphone, you have the choice of sampling straight into the own mixer or first recording sounds to tape, via the tape deck's input socket. The advantage of connecting

WHAT'S COOKING?

The kitchen was very good place to start your DJV sampling. No, it's nothing to do with a sophisticated atmosphere, or the inspiring smell of last night's curry remnants. What is it interested in are good old-fashioned kitchen utensils.

Suddenly this cheese grater becomes a rattle (well, I wouldn't advise playing it with bare hands unless you like the sound of grated fingertips). (Just again, plastic utensils, but come in handy for those sampler tones.) Run a knife along the vertically punctured surfaces, and you're going handily of alternative percussion samples. Great a teacupbell, give it a whack with a wooden spoon, a tea spoon and fork, and you've got three very different sounds. Use a bit of imagination, and you can come up with a whole culinary drum kit. What do a cake drum? (See outside and give the sampler some grief. For some belted percussion or instrument sounds, try milk bottles, glasses and beer cans. Fill with various pieces of cutlery.

There's no need to stop there either. Just about any two related objects often create sounds when banged or rubbed together. As for sound effects, apart from the crashes and bangs created in last night's fight to the floor, you can modulate tapping rhythms by recording the chip pan in full flow, or struts in Hysteria Park by tapping the steps into the pine. Play your tape water samples at a slow speed to get that big sound.

rsel sampling

TALKING LOUD AND CLEAR

Unless you can sing, it's no good me in. Can you hear it? (sings into microphone) You've probably never considered sampling your own voice. That's most likely a good thing, but it is worth checking out some of the voice-changing features of most sampling software. A lot of users are into it, I'm going to share much information, but a realistic pitch-bender or "robotic" effect could transform you into Darth Vader.

As far as I know, there isn't yet a package that can sample the effect of a recording studio at once as for now you'll have to record your preselected speech to tape, and sample it from there. There are some online resources, such as ones for sale that even the best analog sampler can do nothing for. This can be quite a problem when your voice still sounds as monotone and boring as ever, but you can't find a sample that says what you want.

There is still an option left open, but I won't always be optimistic. Remember, showing your master how your computer could talk? Well, why not let your Amiga do your voice? Or, if it's not the best speech synthesizer around by a long shot, at least it won't ruin your music with a grating, Luddite-style "Manuscript/Clackety" sound. Yes, I know you can't change just as fast in other parts of the world, so here's better advice.

If you've heard enough of the Amiga's speech synth to tell you a blather, how about digging out that old Qwerty and Qwerty, or even sampling one of these talking dolls? Hearing your voice in an easy way of creating new sounds. For sampling a little more out of the ordinary, rather than simply resampling the whole phrase, by looping each syllable separately. (Note: you also a good source for homemade synth sounds. Let it say you had the word "me" using in your sampler. By looping the "e" and cutting off the end, you've just created a brand new instrument sound to your collection. For an example of this technique, look at one of the tapes in this issue: "Drums 'n' Bass," in which the very first "drum" is played by the cello, only it's played throughout the song.)

REAL LIFE

Counts from the real world can be useful for a track's atmosphere. Possibly the most often used sound effects that I've found are... Resampling your own "drum" code may be a lot of an effort, but not double I play too much of a problem. For

your most today's time, how about sampling a few "drum" samples? A lot of software can do wonders for the "drum" code, but if you're not an expert, it's probably better to use some of the "drum" code. Those with more real-world knowledge could take their tape recorder down to the farm. (The "drum" code and "drum" are transferred to the "drum" code when their "drum" and "drum" code are taken out of the original code.)

DIY INSTRUMENTS

There are a few ways of creating new instrument sounds. (I'll discuss a synthesizer in a moment.) It's far from your handy "drum" code, but you can use one of the "drum" code programs, such as the PG Utility Sample Maker, to come up with new sounds.

Even if you don't have either of these options, you can still have a crack at making some original instrument sounds with no more than your sampler. Maybe you've got a few basic samples that you like, but none of them is quite what you're after. Possibly one has a nice rising attack to it, but no beat, and another is good and heavy, but has little character. Combining the strengths of these two into one sample is an easy job. First, make sure that both samples play the same role. If not, take one of them to match the other. Now load up your first sample, and copy the whole mix (including beat) onto the second sample, and mix the attack you just copied onto the rest of the current sample. By using the "mix" button, you'll get more and more of the attack superimposed on the second sound.

Combining beats with pedals, drums and strings gives your samples a bright light, and makes them even more effective as real sounds. Variations of this technique can be used to transform your own sounds. As well as looping where sounds, it's also useful to combine a few sounds with each other. The very first drum (your "drum" code) you can load up the "drum" code of the first drum when the drum comes in, or using an extra track.

Getting back to the subject of "drum" code, you can get some excellent new sounds (bass to sampling feedback). Different set-ups give different results and you may end up with what's better than before. But I found my "drum" code of excellent feedback and even if you copy the "drum" code to the "drum" code, it's still a good idea to copy it to the "drum" code. If you get out of "drum" code, you have been warned!

EXPERIMENT

Superficially, it's the key. Subject your mouth to pressure (force) changes and measure, and the "drum" code will be. Even if you come up with a really off the wall sound, it's worth seeing it out to the open. Once you've got a few beats of "drum" code and you're in play back a few times, you'll be surprised at how (often) some of your "drum" code samples can be. That's all for the month. Happy sampling!



Comparing the new "drum" code with the original, the "drum" code is the one to get off the "drum" code. The "drum" code is the one to get off the "drum" code.



Using a few instrument samples to help it mix sounds, using the "drum" code to help it mix sounds, and using the "drum" code to help it mix sounds.

SELL OUT

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[illegible][illegible]

NEXT MONTH

CHANGES...PART 3

It must be something right the other 190,000 have decided an extra 20 page supplement to the magazine that we've got this time again. I don't know we just can't let an old fan magazine without giving our most into something. The next month will be going to completely revamp our Back Pages. I'm afraid they're going to be retained. Amiga Workshop and will be invaluable with tutorials, reader reviews, layout guides and step-by-step features - anything. In fact, that hope you get the most out of your Amiga. Inside Information and Hardware will be including a new home section of the mag, and various courses and guides will be taking their place. What else? Well I just have to wait and see!

'TIS THE SEASON

The last issue will be full of Christmas cheer, plus more (and there'll be lots of city features, and of your mail and other such interesting as other next month). That we've got the results of our Fan Awards. We've had literally thousands of votes for the magazine (most of them from overseas) and next month we'll tell you who the winners and losers are. And as a special treat, we'll be giving to do a special treat in the UK of Cij Amiga, bringing up a few seasons from certain people's stories and generally having a bit of a laugh.

IN THE BIN

Just as in the package ring of software as we monitor the games that have ended up in the editor's bin (and the last few months). Let's face it - for every quality magazine that we make in Cij Amiga, there are at least five others equally well (and even under the name) which games will receive the status. Success of keeping in this level new feature? How I have to buy that month's magazine to find out.

PRINTER SPECIAL

If you've ever bought a printer, you'll know how frustrating it can be getting decent results out of the cheapest thing. Following up this month a Cij printer special we've commissioned a special feature on how to optimise the quality of your printer's output by using some of the special programs created to help you get better results.

ART GALLERY SPECIAL

We've been deluged with entries for the popular section of the magazine and that have been at an incredibly high standard. In a special art gallery Amiga, we'll be showing off some of the best submissions we've received over the last couple of months. If you want to improve your drawing technique or merely want to see a sample of some of the amazing pictures we've received, then look up a new artwork, up some kids and fun.

VIDEO SPECIAL

Let's face it, watching the TV has been a bit of a pain these days. So why not become a video star? It's a great idea to go to a day to two and use your Amiga to produce up the family watching. Birthday party, Christmas, holiday or entertaining school play? Find out how in our 10-page tutorial.

OPAL VISION REVIEW

Probably the most talked about 3D bit graphics system since the Radeon, we will be taking open Canbus' recent phase of bit to give you the definite low-down. Is Canbus really any better than the mediocre pseudo-3D that have been appearing here in the last year? And it's worth the (possibly) astronomical asking price? Only your judgement knows for sure, so make sure you receive your copy today!

We will also be exploring the world of 3D bit graphics in general and analysing from the advent of the latest AMDG 3D bit 3D bit capability with particular change the face of Amiga software.

MORPH WARS

Imagine that you could see users may not be doing of the bit for long, as the next few weeks will see the release of image effects software from Impulse, Mirage and KODU. All these packages will be evaluated in the next magazine. Cij standards as at the end of the day you'll be left in no doubt as to which is the package for you.

THE DEATH OF THE NEXT MONTH PAGE

As a bit of a summation there you go! If you know as well as we do that almost everything (except the bit) is going to be in the last month and you'll be seeing it in any and wherever in their place, it's got to stop. I tell you, and I'll tell you. This issue may well be the last last month page you'll ever see in Cij Amiga.

PLUS!

GAMING SPECIAL

Our special gaming section concentrates on Amiga games, for our special Christmas issue and gives an extended Cij Amiga guide to which games. The Christmas is to money. There's also a bit of a whole host of the features and other such more included in our guide to the best games machines ever! Don't expect one of those 100-page 100 guides that seem to be all the rage - instead, we'll be taking a look at all the different gaming gear that we've ever come across the bit games both with one.

PLUS!

2 BRILLIANT WHITE-HOT COVER DISKS

We've got a great and our Christmas cover disks with something a bit we call To give you something to play into the festive season we've created 2 physical copies of the most games around. That story is sure to be some thing special, but we've also got a real hot productivity disk in the offing. Once again, the only way is that out to be with our next month's issue into the streets.

Contents may be subject to change without notice

CU AMIGA - DECEMBER ISSUE ON SALE 26TH NOVEMBER

HOLLI WOULD
IF SHE
COULD
...and she will



ATARI
AMIGA
IBM PC &
COMPATIBLES



CARTOON LAND GONE BAD!

While publishing his underground comic Jack Doodle has unwittingly created a parallel universe inhabited by cartoon characters known as DOODLES. You are transported into COOL WORLD and ordered, through engaging messages, by the Doodle vamp... HOLLI. Visual jokes and gags punctuate your adventure as you hop in and fro between reality and COOL WORLD. But Holli's dream is to shed her Doodle identity... to become a real woman - with a real interest in Jack!

**A DREAM THAT COULD
DESTROY BOTH WORLDS!**



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